

## SEQUENCE LISTING

&lt;110&gt; Keio University

<120> PROTEIN FORMING COMPLEX WITH c-Jun PROTEIN, NUCLEIC ACID ENCODING THE SAME  
AND METHOD OF USING THE SAME

&lt;130&gt; P595-C4285

&lt;150&gt; JP 2003-389676

&lt;151&gt; 2003-11-19

&lt;160&gt; 299

&lt;210&gt; 1

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 1

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Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu Leu
1      5      10      15
Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu
20      25      30
Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu Thr
35      40      45
Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu His
50      55      60
Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr Leu Lys Leu Ser Thr
65      70      75      80
Arg Ser Pro Met Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu
85      90      95
Glu Glu Glu Ser Asp Ser
100

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&lt;210&gt; 2

&lt;211&gt; 86

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2

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Val Glu Gly Ser Ala Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu
1      5      10      15
Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala
20      25      30
Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln
35      40      45
Ser Val Ile Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro
50      55      60
Ala Pro Glu Gln Leu Cys Asp Met Ser Leu His Val Asp His Glu Val
65      70      75      80
Thr Ile Asn Gln Thr Thr
85

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&lt;210&gt; 3

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 3

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Ser Ala Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu
1      5      10      15
Arg Lys Glu Glu Glu Thr Gln Leu Arg Leu Lys Ala Ala Leu His Asp
20      25      30

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Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile  
           35          40          45  
 Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu  
       50          55          60  
 Gln Leu Cys Asp Met Ser Leu His Val Asp His Glu Val Thr Ile Asn  
   65          70          75          80  
 Gln Thr Thr Leu

<210> 4  
 <211> 83  
 <212> PRT  
 <213> Mus musculus

<400> 4  
 Ser Ala Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu  
 1          5          10          15  
 Arg Lys Glu Glu Glu Thr Gln Leu Arg Leu Lys Ala Ala Leu His Asp  
           20          25          30  
 Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile  
       35          40          45  
 Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu  
       50          55          60  
 Gln Leu Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn  
   65          70          75          80  
 Gln Lys Leu

<210> 5  
 <211> 83  
 <212> PRT  
 <213> Mus musculus

<400> 5  
 Ser Ala Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu  
 1          5          10          15  
 Arg Lys Glu Glu Glu Thr Gln Leu His Leu Lys Ala Ala Leu His Asp  
           20          25          30  
 Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile  
       35          40          45  
 Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu  
       50          55          60  
 Gln Leu Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn  
   65          70          75          80  
 Gln Lys Leu

<210> 6  
 <211> 83  
 <212> PRT  
 <213> Mus musculus

<400> 6  
 Ser Ala Leu Arg Lys Trp Lys Gly Val Leu Ser Arg Leu Gln Glu Leu  
 1          5          10          15  
 Arg Lys Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp  
           20          25          30  
 Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile  
       35          40          45  
 Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu  
       50          55          60  
 Gln Leu Cys Asp Met Ser Leu His Val Asp His Glu Val Thr Ile Asn  
   65          70          75          80  
 Gln Ser Lys

<210> 7  
 <211> 65  
 <212> PRT  
 <213> Mus musculus

<400> 7  
 Ser Ala Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu  
 1 5 10 15  
 Arg Lys Glu Glu Glu Thr Gln Leu Arg Leu Lys Ala Ala Leu His Asp  
 20 25 30  
 Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile  
 35 40 45  
 Asn Ser Arg Arg Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu  
 50 55 60  
 Ser  
 65

<210> 8  
 <211> 75  
 <212> PRT  
 <213> Mus musculus

<400> 8  
 Ala Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg  
 1 5 10 15  
 Lys Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln  
 20 25 30  
 Leu Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn  
 35 40 45  
 Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln  
 50 55 60  
 Leu Cys Asp Met Ser Leu His Val Asp Asn Glu  
 65 70 75

<210> 9  
 <211> 95  
 <212> PRT  
 <213> Mus musculus

<400> 9  
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys  
 1 5 10 15  
 Glu Glu Glu Thr Leu Leu Arg Gln Lys Ala Ala Leu His Asp Gln Leu  
 20 25 30  
 Asn Arg Leu Lys Val Glu Glu Leu Pro Leu Gln Ser Met Ile Asn Ser  
 35 40 45  
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu  
 50 55 60  
 Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr  
 65 70 75 80  
 Thr Leu Lys Leu Ser Thr Arg Ser Pro Met Glu Glu Lys Glu Glu  
 85 90 95

<210> 10  
 <211> 82  
 <212> PRT  
 <213> Mus musculus

<400> 10  
 Pro Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys  
 1 5 10 15  
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu  
 3

Asn	Arg	Leu	Lys	Val	Glu	Glu	Leu	Ala	Leu	Gln	Ser	Met	Ile	Asn	Ser
		35					40					45			
Arg	Gly	Arg	Thr	Glu	Thr	Leu	Ser	Ser	Gln	Pro	Ala	Pro	Glu	Gln	Leu
	50					55					60				
Cys	Asp	Met	Ser	Leu	His	Val	Asp	Asn	Glu	Val	Thr	Ile	Asn	Gln	Thr
65					70					75					80
Thr	Arg														

<210> 11  
 <211> 82  
 <212> PRT  
 <213> Mus musculus

Leu	Arg	Lys	Trp	Lys	Gly	Met	Leu	Ser	Arg	Leu	Gln	Glu	Leu	Arg	Lys
1				5					10					15	
Glu	Glu	Glu	Thr	Leu	Leu	Arg	Leu	Lys	Ala	Ala	Leu	His	Asp	Gln	Leu
			20					25					30		
Asn	Arg	Leu	Lys	Val	Glu	Glu	Leu	Ala	Leu	Gln	Ser	Met	Ile	Asn	Ser
		35					40					45			
Arg	Gly	Arg	Thr	Glu	Thr	Leu	Ser	Phe	Gln	Pro	Ala	Pro	Glu	Gln	Leu
	50					55					60				
Cys	Asp	Met	Ser	Leu	His	Val	Asp	Asn	Glu	Val	Thr	Ile	Asn	Gln	Thr
65					70					75					80
Thr	Arg														

<210> 12  
 <211> 61  
 <212> PRT  
 <213> Mus musculus

Leu	Arg	Lys	Trp	Lys	Gly	Met	Leu	Ser	Arg	Leu	Gln	Glu	Leu	Arg	Lys
1				5					10					15	
Glu	Glu	Glu	Thr	Leu	Leu	Arg	Leu	Lys	Ala	Ala	Leu	His	Asp	Gln	Leu
			20					25					30		
Asn	Arg	Leu	Lys	Val	Glu	Glu	Leu	Ala	Leu	Gln	Ser	Met	Ile	Asn	Ser
		35					40					45			
Arg	Gly	Arg	Thr	Glu	Thr	Leu	Ser	Ser	Gln	Pro	Ala	Arg			
	50					55					60				

<210> 13  
 <211> 53  
 <212> PRT  
 <213> Mus musculus

Leu	Arg	Lys	Trp	Lys	Gly	Met	Leu	Ser	Arg	Leu	Arg	Glu	Leu	Arg	Lys
1				5					10					15	
Glu	Glu	Glu	Thr	Leu	Leu	Arg	Leu	Lys	Ala	Ala	Leu	His	Asp	Gln	Leu
			20					25					30		
Asn	Arg	Leu	Lys	Val	Glu	Glu	Leu	Ala	Leu	Gln	Ser	Met	Ile	Asn	Ser
		35					40					45			
Arg	Gly	Arg	Thr	Glu											
	50														

<210> 14  
 <211> 51  
 <212> PRT  
 <213> Mus musculus

<400> 14  
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Gly Leu Arg Lys  
 1 5 10 15  
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu  
 20 25 30  
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser  
 35 40 45  
 Arg Gly Lys  
 50

<210> 15  
 <211> 86  
 <212> PRT  
 <213> Mus musculus

<400> 15  
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys  
 1 5 10 15  
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu  
 20 25 30  
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser  
 35 40 45  
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu  
 50 55 60  
 Cys Asp Met Tyr Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr  
 65 70 75 80  
 Thr Leu Lys Leu Ser Thr  
 85

<210> 16  
 <211> 82  
 <212> PRT  
 <213> Mus musculus

<400> 16  
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys  
 1 5 10 15  
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu  
 20 25 30  
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser  
 35 40 45  
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu  
 50 55 60  
 Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr  
 65 70 75 80  
 Ser Thr

<210> 17  
 <211> 95  
 <212> PRT  
 <213> Mus musculus

<400> 17  
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Gln Gln Glu Pro Arg Lys  
 1 5 10 15  
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu Arg Asp Gln Leu  
 20 25 30  
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser  
 35 40 45  
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu  
 50 55 60  
 Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr  
 65 70 75 80

Thr Leu Lys Leu Ser Thr Arg Ser Pro Met Glu Glu Glu Glu Val  
85 90 95

<210> 18  
<211> 95  
<212> PRT  
<213> Mus musculus

<400> 18  
Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys  
1 5 10 15  
Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu  
20 25 30  
Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser  
35 40 45  
Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu  
50 55 60  
Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr  
65 70 75 80  
Thr Leu Lys Leu Ser Thr Arg Ser Pro Met Glu Glu Glu Gly Arg  
85 90 95

<210> 19  
<211> 82  
<212> PRT  
<213> Mus musculus

<400> 19  
Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys  
1 5 10 15  
Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu  
20 25 30  
Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser  
35 40 45  
Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu  
50 55 60  
Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr  
65 70 75 80  
Thr Leu

<210> 20  
<211> 82  
<212> PRT  
<213> Mus musculus

<400> 20  
Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys  
1 5 10 15  
Glu Glu Glu Thr Leu Leu Arg Leu Arg Ala Ala Leu His Asp Gln Leu  
20 25 30  
Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser  
35 40 45  
Arg Gly Arg Thr Glu Thr Pro Ser Ser Gln Pro Ala Pro Glu Gln Leu  
50 55 60  
Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr  
65 70 75 80  
Thr Leu

<210> 21  
<211> 81  
<212> PRT  
<213> Mus musculus

<400> 21  
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys  
 1 5 10 15  
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu  
 20 25 30  
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser  
 35 40 45  
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu  
 50 55 60  
 Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr  
 65 70 75 80  
 Thr

<210> 22  
 <211> 82  
 <212> PRT  
 <213> Mus musculus

<400> 22  
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys  
 1 5 10 15  
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu  
 20 25 30  
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser  
 35 40 45  
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu  
 50 55 60  
 Cys Asp Met Ser Leu His Val Asp Asn Lys Val Thr Ile Asn Gln Thr  
 65 70 75 80  
 Thr Pro

<210> 23  
 <211> 82  
 <212> PRT  
 <213> Mus musculus

<400> 23  
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys  
 1 5 10 15  
 Glu Glu Glu Thr Leu Leu Arg Leu Asn Ala Ala Leu His Asp Gln Leu  
 20 25 30  
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser  
 35 40 45  
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu  
 50 55 60  
 Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr  
 65 70 75 80  
 Thr Leu

<210> 24  
 <211> 82  
 <212> PRT  
 <213> Mus musculus

<400> 24  
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Asn  
 1 5 10 15  
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu  
 20 25 30  
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser

[illegible]

<400> 25  
 Leu Arg Lys Trp Lys Gly Met Leu Ser Gln Leu Gln Glu Leu Arg Lys  
 1 5 10 15  
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu  
 20 25 30  
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser  
 35 40 45  
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Val Pro Glu Gln Leu  
 50 55 60  
 Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr  
 65 70 75 80  
 Thr Leu

<400> 26  
 Leu Arg Lys Trp Lys Gly Val Leu Ser Arg Leu Gln Glu Leu Arg Lys  
 1 5 10 15  
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu  
 20 25 30  
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser  
 35 40 45  
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu  
 50 55 60  
 Cys Asp Met Ser Leu His Val Asp Ser Glu Val Thr Ile Asn Gln Thr  
 65 70 75 80  
 His Lys

<400> 27  
 1 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys  
 5 10 15  
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu  
 20 25 30  
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser  
 35 40 45  
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu  
 50 55 60  
 Cys Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr  
 65 70 75 80  
 His Lys



<210> 28  
 <211> 63  
 <212> PRT  
 <213> Mus musculus

<400> 28  
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys  
 1 5 10 15  
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu  
 20 25 30  
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser  
 35 40 45  
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Ser  
 50 55 60

<210> 29  
 <211> 63  
 <212> PRT  
 <213> Mus musculus

<400> 29  
 Leu Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys  
 1 5 10 15  
 Glu Glu Glu Thr Leu Leu Arg Leu Asn Ala Ala Leu His Asp Gln Leu  
 20 25 30  
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser  
 35 40 45  
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Ser  
 50 55 60

<210> 30  
 <211> 60  
 <212> PRT  
 <213> Mus musculus

<400> 30  
 Gln Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys  
 1 5 10 15  
 Glu Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu  
 20 25 30  
 Asn Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser  
 35 40 45  
 Arg Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala  
 50 55 60

<210> 31  
 <211> 81  
 <212> PRT  
 <213> Mus musculus

<400> 31  
 Arg Glu Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu  
 1 5 10 15  
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn  
 20 25 30  
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg  
 35 40 45  
 Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys  
 50 55 60  
 Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr His  
 65 70 75 80  
 Ser

<210> 32  
 <211> 48  
 <212> PRT  
 <213> Mus musculus

<400> 32  
 Phe Leu Val Asn Glu Gly Trp Ser Gln Leu Ala Ala Met His Cys Val  
 1 5 10 15  
 Met Leu Pro Asp Leu Leu Gly Leu Glu Arg Phe Arg Pro Pro Leu Leu  
 20 25 30  
 Glu Met Leu Ala Arg Arg Trp Gln Asp Arg Cys Leu Glu Val Arg Glu  
 35 40 45

<210> 33  
 <211> 50  
 <212> PRT  
 <213> Mus musculus

<400> 33  
 Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu  
 1 5 10 15  
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn  
 20 25 30  
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg  
 35 40 45  
 Gly Arg  
 50

<210> 34  
 <211> 81  
 <212> PRT  
 <213> Mus musculus

<400> 34  
 Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu  
 1 5 10 15  
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn  
 20 25 30  
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg  
 35 40 45  
 Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys  
 50 55 60  
 Asp Met Ser Leu His Val Asp His Glu Val Thr Ile Asn Gln Thr Thr  
 65 70 75 80  
 Leu

<210> 35  
 <211> 81  
 <212> PRT  
 <213> Mus musculus

<400> 35  
 Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu  
 1 5 10 15  
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn  
 20 25 30  
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg  
 35 40 45  
 Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys  
 50 55 60  
 Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr  
 65 70 75 80  
 10

Pro

<210> 36  
<211> 81  
<212> PRT  
<213> Mus musculus

<400> 36  
Arg Lys Trp Lys Gly Met Leu Ser Gln Leu Gln Glu Leu Arg Lys Glu  
1 5 10 15  
Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn  
20 25 30  
Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg  
35 40 45  
Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys  
50 55 60  
Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr  
65 70 75 80  
Pro

<210> 37  
<211> 81  
<212> PRT  
<213> Mus musculus

<400> 37  
Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Met Glu  
1 5 10 15  
Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn  
20 25 30  
Leu Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg  
35 40 45  
Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys  
50 55 60  
Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Leu Thr Thr  
65 70 75 80  
Pro

<210> 38  
<211> 81  
<212> PRT  
<213> Mus musculus

<400> 38  
Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu  
1 5 10 15  
Glu Glu Thr Leu Leu Arg Leu Asn Ala Ala Leu His Asp Gln Leu Asn  
20 25 30  
Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg  
35 40 45  
Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys  
50 55 60  
Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr  
65 70 75 80  
Pro

<210> 39  
<211> 81  
<212> PRT  
<213> Mus musculus

<400> 39

Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu  
1 5 10 15  
Glu Glu Thr Leu Leu Arg Leu Lys Ala Leu His Asp Gln Leu Asn  
20 25 30  
Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg  
35 40 45  
Gly Arg Ala Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys  
50 55 60  
Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr  
65 70 75 80  
Pro

<210> 40

<211> 81

<212> PRT

<213> Mus musculus

<400> 40

Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu  
1 5 10 15  
Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn  
20 25 30  
Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg  
35 40 45  
Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Thr Pro Glu Gln Leu Cys  
50 55 60  
Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr  
65 70 75 80  
Thr

<210> 41

<211> 81

<212> PRT

<213> Mus musculus

<400> 41

Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu  
1 5 10 15  
Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn  
20 25 30  
Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg  
35 40 45  
Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys  
50 55 60  
Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Lys  
65 70 75 80  
Leu

<210> 42

<211> 81

<212> PRT

<213> Mus musculus

<400> 42

Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu  
1 5 10 15  
Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn  
20 25 30  
Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg  
12

Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys  
 50 35 40 45  
 Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr  
 65 70 75 80  
 Gln

<210> 43  
 <211> 81  
 <212> PRT  
 <213> Mus musculus

<400> 43  
 Arg Lys Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu  
 1 5 10 15  
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Leu His Asp Gln Leu Asn  
 20 25 30  
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg  
 35 40 45  
 Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys  
 50 55 60  
 Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Arg  
 65 70 75 80  
 Pro

<210> 44  
 <211> 81  
 <212> PRT  
 <213> Mus musculus

<400> 44  
 Arg Lys Trp Glu Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu  
 1 5 10 15  
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn  
 20 25 30  
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg  
 35 40 45  
 Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys  
 50 55 60  
 Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Arg  
 65 70 75 80  
 Pro

<210> 45  
 <211> 81  
 <212> PRT  
 <213> Mus musculus

<400> 45  
 Arg Lys Trp Lys Gly Thr Leu Ser Arg Leu Gln Asp Leu Arg Lys Glu  
 1 5 10 15  
 Glu Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn  
 20 25 30  
 Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg  
 35 40 45  
 Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys  
 50 55 60  
 Asp Val Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Arg  
 65 70 75 80  
 Pro

<210> 46  
 <211> 49  
 <212> PRT  
 <213> Mus musculus

<400> 46  
 Lys Trp Lys Gly Met Leu Ser Arg Leu Lys Glu Leu Arg Lys Glu Glu  
 1 5 10 15  
 Glu Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg  
 20 25 30  
 Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly  
 35 40 45  
 Arg

<210> 47  
 <211> 79  
 <212> PRT  
 <213> Mus musculus

<400> 47  
 Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu  
 1 5 10 15  
 Thr Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu  
 20 25 30  
 Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg  
 35 40 45  
 Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met  
 50 55 60  
 Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr Leu  
 65 70 75

<210> 48  
 <211> 79  
 <212> PRT  
 <213> Mus musculus

<400> 48  
 Trp Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu  
 1 5 10 15  
 Ala Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu  
 20 25 30  
 Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg  
 35 40 45  
 Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met  
 50 55 60  
 Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr Leu  
 65 70 75

<210> 49  
 <211> 47  
 <212> PRT  
 <213> Mus musculus

<400> 49  
 Lys Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr  
 1 5 10 15  
 Leu Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys  
 20 25 30  
 Val Lys Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg  
 35 40 45

<210> 50

<211> 90  
 <212> PRT  
 <213> Mus musculus

<400> 50  
 Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu  
 1 5 10 15  
 Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val  
 20 25 30  
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu  
 35 40 45  
 Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu  
 50 55 60  
 His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr Leu Lys Leu Ser  
 65 70 75 80  
 Thr Arg Ser Pro Met Glu Glu Glu Glu Gly  
 85 90

<210> 51  
 <211> 77  
 <212> PRT  
 <213> Mus musculus

<400> 51  
 Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu  
 1 5 10 15  
 Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val  
 20 25 30  
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu  
 35 40 45  
 Ala Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Thr Ser Leu  
 50 55 60  
 His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr Leu  
 65 70 75

<210> 52  
 <211> 77  
 <212> PRT  
 <213> Mus musculus

<400> 52  
 Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu  
 1 5 10 15  
 Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val  
 20 25 30  
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu  
 35 40 45  
 Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu  
 50 55 60  
 His Val Asp Asn Glu Val Thr Ile Asn Gln Thr His Ser  
 65 70 75

<210> 53  
 <211> 77  
 <212> PRT  
 <213> Mus musculus

<400> 53  
 Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu  
 1 5 10 15  
 Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val  
 20 25 30  
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu  
 35 40 45

Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu  
50 55 60  
His Val Asp Asn Glu Val Ala Ile Asn Gln Thr Thr Pro  
65 70 75

<210> 54  
<211> 77  
<212> PRT  
<213> Mus musculus

<400> 54  
Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu  
1 5 10 15  
Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val  
20 25 30  
Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu  
35 40 45  
Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu  
50 55 60  
His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr Pro  
65 70 75

<210> 55  
<211> 76  
<212> PRT  
<213> Mus musculus

<400> 55  
Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu  
1 5 10 15  
Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val  
20 25 30  
Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Glu Arg Thr Glu  
35 40 45  
Thr Leu Ser Ser Arg Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu  
50 55 60  
His Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr  
65 70 75

<210> 56  
<211> 76  
<212> PRT  
<213> Mus musculus

<400> 56  
Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu  
1 5 10 15  
Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val  
20 25 30  
Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu  
35 40 45  
Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu  
50 55 60  
His Val Asp Asn Glu Val Thr Ile Asp Gln Gly Ala  
65 70 75

<210> 57  
<211> 74  
<212> PRT  
<213> Mus musculus

<400> 57  
Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu  
1 5 10 15



Leu Arg Leu Lys Ala Ala Leu His Asn Gln Leu Asn Arg Leu Lys Val  
                   20                  25                  30  
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu  
                   35                  40                  45  
 Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu  
                   50                  55                  60  
 His Val Asp Asn Glu Val Thr Ile Asn Gln  
 65                  70

<210> 58  
 <211> 69  
 <212> PRT  
 <213> Mus musculus

<400> 58  
 Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu  
 1                  5                  10                  15  
 Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val  
                   20                  25                  30  
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu  
                   35                  40                  45  
 Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu  
                   50                  55                  60  
 His Val Asp His Glu  
 65

<210> 59  
 <211> 69  
 <212> PRT  
 <213> Mus musculus

<400> 59  
 Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu  
 1                  5                  10                  15  
 Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val  
                   20                  25                  30  
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu  
                   35                  40                  45  
 Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu  
                   50                  55                  60  
 His Val Asp Ile Glu  
 65

<210> 60  
 <211> 67  
 <212> PRT  
 <213> Mus musculus

<400> 60  
 Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu  
 1                  5                  10                  15  
 Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val  
                   20                  25                  30  
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu  
                   35                  40                  45  
 Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Thr Ser Leu  
                   50                  55                  60  
 His Val Thr  
 65

<210> 61  
 <211> 46  
 <212> PRT  
 <213> Mus musculus

<400> 61  
 Gly Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu  
 1 5 10 15  
 Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val  
 20 25 30  
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg  
 35 40 45

<210> 62  
 <211> 46  
 <212> PRT  
 <213> Mus musculus

<400> 62  
 Arg Met Leu Ser Gln Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu  
 1 5 10 15  
 Leu Arg Leu Lys Ala Thr Leu His Asp Gln Leu Asn Arg Leu Lys Val  
 20 25 30  
 Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Lys  
 35 40 45

<210> 63  
 <211> 75  
 <212> PRT  
 <213> Mus musculus

<400> 63  
 Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu Leu Arg  
 1 5 10 15  
 Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu Glu  
 20 25 30  
 Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu Thr Leu  
 35 40 45  
 Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu His Val  
 50 55 60  
 Asp Asn Glu Val Thr Ile Asn Gln Thr Thr Leu  
 65 70 75

<210> 64  
 <211> 69  
 <212> PRT  
 <213> Mus musculus

<400> 64  
 Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu Leu Arg  
 1 5 10 15  
 Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu Glu  
 20 25 30  
 Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu Thr Leu  
 35 40 45  
 Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu His Val  
 50 55 60  
 Asp Asn Glu Ala Thr  
 65

<210> 65  
 <211> 66  
 <212> PRT  
 <213> Mus musculus

<400> 65  
 Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu Leu Arg Leu Lys  
 1 5 10 15

Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala  
 20 25 30  
 Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser  
 35 40 45  
 Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu His Val Asp Asn  
 50 55 60  
 Glu Val  
 65

<210> 66  
 <211> 61  
 <212> PRT  
 <213> Mus musculus

<400> 66  
 Arg Leu Arg Glu Leu Arg Lys Glu Glu Lys Thr Leu Leu Arg Leu Lys  
 1 5 10 15  
 Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala  
 20 25 30  
 Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser  
 35 40 45  
 Gln Pro Ala Pro Glu Gln Cys Pro Tyr Met Leu Thr Thr  
 50 55 60

<210> 67  
 <211> 61  
 <212> PRT  
 <213> Mus musculus

<400> 67  
 Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu Leu Arg Leu Lys  
 1 5 10 15  
 Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala  
 20 25 30  
 Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser  
 35 40 45  
 Gln Pro Ala Pro Gly Gln Cys Pro Tyr Met Leu Thr Thr  
 50 55 60

<210> 68  
 <211> 61  
 <212> PRT  
 <213> Mus musculus

<400> 68  
 Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Gln Leu Arg Leu Lys  
 1 5 10 15  
 Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala  
 20 25 30  
 Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu Thr Leu Ser Ser  
 35 40 45  
 Gln Pro Ala Pro Glu Gln Cys Pro Tyr Met Leu Thr Thr  
 50 55 60

<210> 69  
 <211> 40  
 <212> PRT  
 <213> Mus musculus

<400> 69  
 Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu Leu Arg Leu Lys  
 1 5 10 15  
 Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu Glu Leu Ala  
 20 25 30

Leu Gln Ser Met Ile Asn Ser Arg  
 35 40

<210> 70  
 <211> 956  
 <212> PRT  
 <213> Mus musculus

<400> 70  
 Met Ala Asp Pro Ala Glu Cys Ser Ile Lys Val Met Cys Arg Phe Arg  
 1 5 10 15  
 Pro Leu Asn Glu Ala Glu Ile Leu Arg Gly Asp Lys Phe Ile Pro Lys  
 20 25 30  
 Phe Lys Gly Glu Glu Thr Val Val Ile Gly Gln Gly Lys Pro Tyr Val  
 35 40 45  
 Phe Asp Arg Val Leu Pro Pro Asn Thr Thr Gln Glu Gln Val Tyr Asn  
 50 55 60  
 Ala Cys Ala Lys Gln Ile Val Lys Asp Val Leu Glu Gly Tyr Asn Gly  
 65 70 75 80  
 Thr Ile Phe Ala Tyr Gly Gln Thr Ser Ser Gly Lys Thr His Thr Met  
 85 90 95  
 Glu Gly Lys Leu His Asp Pro Gln Leu Met Gly Ile Ile Pro Arg Ile  
 100 105 110  
 Ala His Asp Ile Phe Asp His Ile Tyr Ser Met Asp Glu Asn Leu Glu  
 115 120 125  
 Phe His Ile Lys Val Ser Tyr Phe Glu Ile Tyr Leu Asp Lys Ile Arg  
 130 135 140  
 Asp Leu Leu Asp Val Ser Lys Thr Asn Leu Ala Val His Glu Asp Lys  
 145 150 155 160  
 Asn Arg Val Pro Tyr Val Lys Gly Cys Thr Glu Arg Phe Val Ser Ser  
 165 170 175  
 Pro Glu Glu Val Met Asp Val Ile Asp Glu Gly Lys Ala Asn Arg His  
 180 185 190  
 Val Ala Val Thr Asn Met Asn Glu His Ser Ser Arg Ser His Ser Ile  
 195 200 205  
 Phe Leu Ile Asn Ile Lys Gln Glu Asn Val Glu Thr Glu Lys Lys Leu  
 210 215 220  
 Ser Gly Lys Leu Tyr Leu Val Asp Leu Ala Gly Ser Glu Lys Val Ser  
 225 230 235 240  
 Lys Thr Gly Ala Glu Gly Ala Val Leu Asp Glu Ala Lys Asn Ile Asn  
 245 250 255  
 Lys Ser Leu Ser Ala Leu Gly Asn Val Ile Ser Ala Leu Ala Glu Gly  
 260 265 270  
 Thr Lys Thr His Val Pro Tyr Arg Asp Ser Lys Met Thr Arg Ile Leu  
 275 280 285  
 Gln Asp Ser Leu Gly Gly Asn Cys Arg Thr Thr Ile Val Ile Cys Cys  
 290 295 300  
 Ser Pro Ser Val Phe Asn Glu Ala Glu Thr Lys Ser Thr Leu Met Phe  
 305 310 315 320  
 Gly Gln Arg Ala Lys Thr Ile Lys Asn Thr Val Ser Val Asn Leu Glu  
 325 330 335  
 Leu Thr Ala Glu Glu Trp Lys Lys Lys Tyr Glu Lys Glu Lys Glu Lys  
 340 345 350  
 Asn Lys Ala Leu Lys Ser Val Leu Gln His Leu Glu Met Glu Leu Asn  
 355 360 365  
 Arg Trp Arg Asn Gly Glu Ala Val Pro Glu Asp Glu Gln Ile Ser Ala  
 370 375 380  
 Lys Asp His Lys Ser Leu Glu Pro Cys Asp Asn Thr Pro Ile Ile Asp  
 385 390 395 400  
 Asn Ile Thr Pro Val Val Asp Gly Ile Ser Ala Glu Lys Glu Lys Tyr  
 405 410 415  
 Asp Glu Glu Ile Thr Ser Leu Tyr Arg Gln Leu Asp Asp Lys Asp Asp  
 420 425 430  
 Glu Ile Asn Gln Gln Ser Gln Leu Ala Glu Lys Leu Lys Gln Gln Met  
 20



945

950

955

<210> 71  
 <211> 61  
 <212> PRT  
 <213> Mus musculus

<400> 71  
 Gly Ser Ala Ala Gln Lys Gln Lys Ile Ser Phe Leu Glu Asn Asn Leu  
 1 5 10 15  
 Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Arg Asp Asn Ala Asp  
 20 25 30  
 Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr Ala  
 35 40 45  
 Glu Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala  
 50 55 60

<210> 72  
 <211> 61  
 <212> PRT  
 <213> Mus musculus

<400> 72  
 Gly Ser Ala Ala Gln Lys Gln Lys Ile Ser Phe Leu Glu Asn Asn Leu  
 1 5 10 15  
 Glu Gln Leu Thr Lys Val His Lys Gln Pro Val Arg Asp Asn Ala Asp  
 20 25 30  
 Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr Ala  
 35 40 45  
 Glu Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala  
 50 55 60

<210> 73  
 <211> 61  
 <212> PRT  
 <213> Mus musculus

<400> 73  
 Gly Ser Ala Ala Gln Lys Gln Lys Ile Ser Phe Leu Glu Asn Asn Leu  
 1 5 10 15  
 Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Arg Asp Asn Ala Asp  
 20 25 30  
 Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr Ala  
 35 40 45  
 Lys Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Asp Ala  
 50 55 60

<210> 74  
 <211> 64  
 <212> PRT  
 <213> Mus musculus

<400> 74  
 Gly Ser Ala Ala Gln Lys Gln Lys Ile Ser Phe Leu Glu Asn Asn Leu  
 1 5 10 15  
 Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Arg Asp Asn Ala Asp  
 20 25 30  
 Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr Ala  
 35 40 45  
 Lys Arg Val Lys Ala Leu Val Ser Ala Leu Lys Glu Ala Lys Glu Arg  
 50 55 60

<210> 75  
 <211> 64

<212> PRT  
 <213> Mus musculus

<400> 75  
 Gly Ser Ala Ala Gln Lys Gln Lys Ile Ser Phe Leu Glu Asn Asn Leu  
 1 5 10 15  
 Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Arg Asp Asn Ala Asp  
 20 25 30  
 Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr Ala  
 35 40 45  
 Glu Arg Val Met Ala Leu Glu Ser Ala Leu Lys Glu Ala Lys Glu Arg  
 50 55 60

<210> 76  
 <211> 64  
 <212> PRT  
 <213> Mus musculus

<400> 76  
 Gly Ser Ala Ala Gln Lys Gln Lys Ile Ser Leu Leu Glu Asn Asn Leu  
 1 5 10 15  
 Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Arg Asp Asn Ala Asp  
 20 25 30  
 Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr Ala  
 35 40 45  
 Glu Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala Lys Glu Arg  
 50 55 60

<210> 77  
 <211> 64  
 <212> PRT  
 <213> Mus musculus

<400> 77  
 Gly Ser Ala Ala Gln Lys Gln Lys Ile Ser Phe Leu Glu Asn His Leu  
 1 5 10 15  
 Glu Gln Leu Thr Lys Val His Lys Leu Leu Val Arg Asp Asn Ala Asp  
 20 25 30  
 Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr Ala  
 35 40 45  
 Glu Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala Lys Glu Arg  
 50 55 60

<210> 78  
 <211> 54  
 <212> PRT  
 <213> Mus musculus

<400> 78  
 Leu Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Arg Asp Asn Ala  
 1 5 10 15  
 Asp Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr  
 20 25 30  
 Ala Glu Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala Lys Glu  
 35 40 45  
 Asn Ala Met Arg Asp Arg  
 50

<210> 79  
 <211> 54  
 <212> PRT  
 <213> Mus musculus

<400> 79

Leu Glu Gln Leu Thr Arg Val His Lys Gln Leu Val Arg Asp Asn Ala  
 1 5 10 15  
 Asp Leu Arg Tyr Glu Leu His Lys Leu Glu Lys Arg Leu Arg Ala Thr  
 20 25 30  
 Ala Glu Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala Lys Glu  
 35 40 45  
 Asn Ala Met Arg Asp Arg  
 50

<210> 80  
 <211> 54  
 <212> PRT  
 <213> Mus musculus

<400> 80  
 Leu Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Arg Asp Asn Ala  
 1 5 10 15  
 Asp Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr  
 20 25 30  
 Ala Lys Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala Lys Glu  
 35 40 45  
 Asn Ala Met Arg Asp Arg  
 50

<210> 81  
 <211> 54  
 <212> PRT  
 <213> Mus musculus

<400> 81  
 Leu Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Gln Asp Asn Ala  
 1 5 10 15  
 Asp Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr  
 20 25 30  
 Ala Glu Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala Lys Glu  
 35 40 45  
 Asn Ala Met Arg Asp Arg  
 50

<210> 82  
 <211> 61  
 <212> PRT  
 <213> Mus musculus

<400> 82  
 Ser Phe Leu Asp Asn Asn Leu Glu Gln Leu Thr Lys Val His Lys Gln  
 1 5 10 15  
 Leu Val Arg Asp Asn Ala Asp Leu Arg Cys Glu Leu Pro Arg Leu Glu  
 20 25 30  
 Lys Met Leu Arg Ala Thr Ala Glu Arg Val Lys Ala Leu Glu Ser Ala  
 35 40 45  
 Leu Lys Glu Ala Lys Glu Asn Ala Met Ser Asp Ala Lys  
 50 55 60

<210> 83  
 <211> 54  
 <212> PRT  
 <213> Mus musculus

<400> 83  
 Leu Glu Gln Leu Thr Lys Val His Lys Gln Leu Val Arg Asp Asn Ala  
 1 5 10 15  
 Asp Leu Arg Cys Glu Leu Pro Lys Leu Glu Lys Arg Leu Arg Ala Thr  
 24



Ala Lys Arg Val Lys Ala Leu Glu Ser Ala Leu Lys Glu Ala Lys Glu  
 20 25 30  
 35 40 45  
 Asn Ala Met Arg Asp Arg  
 50

<210> 84  
 <211> 49  
 <212> PRT  
 <213> Mus musculus

<400> 84  
 Ala Lys Thr Ile Lys Asn Thr Val Ser Val Asn Leu Glu Leu Thr Ala  
 1 5 10 15  
 Glu Glu Trp Lys Lys Glu Tyr Glu Lys Glu Lys Lys Asn Lys Ala  
 20 25 30  
 Leu Lys Ser Val Leu Gln His Leu Glu Met Glu Leu Asn Arg Trp Arg  
 35 40 45  
 Glu

<210> 85  
 <211> 51  
 <212> PRT  
 <213> Mus musculus

<400> 85  
 Gln Arg Ala Lys Thr Ile Asn Asn Thr Val Ser Val Asn Leu Glu Leu  
 1 5 10 15  
 Thr Ala Glu Glu Trp Lys Lys Arg Tyr Glu Lys Glu Lys Glu Lys Asn  
 20 25 30  
 Lys Ala Leu Lys Ser Val Leu Gln His Leu Glu Met Glu Leu Asn Arg  
 35 40 45  
 Trp Arg Arg  
 50

<210> 86  
 <211> 48  
 <212> PRT  
 <213> Mus musculus

<400> 86  
 Gln Arg Ala Lys Ala Ile Lys Asn Thr Val Ser Val Asn Leu Glu Leu  
 1 5 10 15  
 Thr Ala Glu Glu Trp Lys Lys Lys Tyr Glu Lys Glu Lys Glu Lys Asn  
 20 25 30  
 Lys Ala Leu Lys Asn Val Leu Gln His Leu Glu Met Glu Leu Asn Arg  
 35 40 45

<210> 87  
 <211> 70  
 <212> PRT  
 <213> Mus musculus

<400> 87  
 Cys Cys Ser Pro Ser Val Phe Asn Glu Ala Glu Thr Lys Ser Thr Leu  
 1 5 10 15  
 Met Phe Gly Gln Arg Ala Lys Thr Ile Lys Asn Thr Val Ser Val Asn  
 20 25 30  
 Leu Glu Leu Thr Ala Glu Glu Trp Lys Lys Lys Tyr Glu Lys Glu Lys  
 35 40 45  
 Glu Lys Asn Lys Ala Leu Lys Ser Val Leu Gln His Leu Glu Met Glu  
 50 55 60  
 Leu Asn Arg Trp Arg Asn

65

70

<210> 88  
 <211> 1027  
 <212> PRT  
 <213> Mus musculus

<400> 88

Met Ala Glu Thr Asn Asn Glu Cys Ser Ile Lys Val Leu Cys Arg Phe  
 1 5 10 15  
 Arg Pro Leu Asn Gln Ala Glu Ile Leu Arg Gly Asp Lys Phe Ile Pro  
 20 25 30  
 Ile Phe Gln Gly Asp Asp Ser Val Ile Ile Gly Gly Lys Pro Tyr Val  
 35 40 45  
 Phe Asp Arg Val Phe Pro Pro Asn Thr Thr Gln Glu Gln Val Tyr His  
 50 55 60  
 Ala Cys Ala Met Gln Ile Val Lys Asp Val Leu Ala Gly Tyr Asn Gly  
 65 70 75 80  
 Thr Ile Phe Ala Tyr Gly Gln Thr Ser Ser Gly Lys Thr His Thr Met  
 85 90 95  
 Glu Gly Lys Leu His Asp Pro Gln Leu Met Gly Ile Ile Pro Arg Ile  
 100 105 110  
 Ala Arg Asp Ile Phe Asn His Ile Tyr Ser Met Asp Glu Asn Leu Glu  
 115 120 125  
 Phe His Ile Lys Val Ser Tyr Phe Glu Ile Tyr Leu Asp Lys Ile Arg  
 130 135 140  
 Asp Leu Leu Asp Val Thr Lys Thr Asn Leu Ser Val His Glu Asp Lys  
 145 150 155 160  
 Asn Arg Val Pro Phe Val Lys Gly Cys Thr Glu Arg Phe Val Ser Ser  
 165 170 175  
 Pro Glu Glu Ile Leu Asp Val Ile Asp Glu Gly Lys Ser Asn Arg His  
 180 185 190  
 Val Ala Val Thr Asn Met Asn Glu His Ser Ser Arg Ser His Ser Ile  
 195 200 205  
 Phe Leu Ile Asn Ile Lys Gln Glu Asn Val Glu Thr Glu Gln Lys Leu  
 210 215 220  
 Ser Gly Lys Leu Tyr Leu Val Asp Leu Ala Gly Ser Glu Lys Val Ser  
 225 230 235 240  
 Lys Thr Gly Ala Glu Gly Ala Val Leu Asp Glu Ala Lys Asn Ile Asn  
 245 250 255  
 Lys Ser Leu Ser Ala Leu Gly Asn Val Ile Ser Ala Leu Ala Glu Gly  
 260 265 270  
 Thr Lys Ser Tyr Val Pro Tyr Arg Asp Thr Lys Met Thr Arg Ile Leu  
 275 280 285  
 Gln Asp Ser Leu Gly Gly Asn Cys Arg Thr Thr Met Phe Ile Cys Cys  
 290 295 300  
 Ser Pro Ser Ser Tyr Asn Asp Ala Glu Thr Lys Ser Thr Leu Met Phe  
 305 310 315 320  
 Gly Gln Arg Ala Lys Thr Ile Lys Asn Thr Ala Ser Val Asn Leu Glu  
 325 330 335  
 Leu Thr Ala Glu Gln Trp Lys Lys Lys Tyr Glu Lys Glu Lys Glu Lys  
 340 345 350  
 Thr Lys Ala Gln Lys Glu Thr Ile Ala Asn Val Glu Ala Glu Leu Ser  
 355 360 365  
 Arg Trp Arg Asn Gly Glu Asn Val Pro Glu Thr Glu Arg Leu Ala Gly  
 370 375 380  
 Glu Asp Ser Ala Leu Gly Ala Glu Leu Cys Glu Glu Thr Pro Val Asn  
 385 390 395 400  
 Asp Asn Ser Ser Ile Val Val Arg Ile Ala Pro Glu Glu Arg Gln Lys  
 405 410 415  
 Tyr Glu Glu Glu Ile Arg Arg Leu Tyr Lys Gln Leu Asp Asp Lys Asp  
 420 425 430  
 Asp Glu Ile Asn Gln Gln Ser Gln Leu Ile Glu Lys Leu Lys Gln Gln  
 435 440 445

Met	Leu	Asp	Gln	Glu	Glu	Leu	Leu	Val	Ser	Thr	Arg	Gly	Asp	Asn	Glu
	450					455					460				
Lys	Val	Gln	Arg	Glu	Leu	Ser	His	Leu	Gln	Ser	Glu	Asn	Asp	Ala	Ala
465					470					475					480
Lys	Asp	Glu	Val	Lys	Glu	Val	Leu	Gln	Ala	Leu	Glu	Glu	Leu	Ala	Val
				485					490					495	
Asn	Tyr	Asp	Gln	Lys	Ser	Gln	Glu	Val	Glu	Glu	Lys	Ser	Gln	Gln	Asn
			500					505					510		
Gln	Leu	Leu	Val	Asp	Glu	Leu	Ser	Gln	Lys	Val	Ala	Thr	Met	Leu	Ser
		515					520					525			
Leu	Glu	Ser	Glu	Leu	Gln	Arg	Leu	Gln	Glu	Val	Ser	Gly	His	Gln	Arg
	530					535					540				
Lys	Arg	Ile	Ala	Glu	Val	Leu	Asn	Gly	Leu	Met	Arg	Asp	Leu	Ser	Glu
545					550					555					560
Phe	Ser	Val	Ile	Val	Gly	Asn	Gly	Glu	Ile	Lys	Leu	Pro	Val	Glu	Ile
				565					570					575	
Ser	Gly	Ala	Ile	Glu	Glu	Glu	Phe	Thr	Val	Ala	Arg	Leu	Tyr	Ile	Ser
			580					585					590		
Lys	Ile	Lys	Ser	Glu	Val	Lys	Ser	Val	Val	Lys	Arg	Cys	Arg	Gln	Leu
		595					600					605			
Glu	Asn	Leu	Gln	Val	Glu	Cys	His	Arg	Lys	Met	Glu	Val	Thr	Gly	Arg
	610					615					620				
Glu	Leu	Ser	Ser	Cys	Gln	Leu	Leu	Ile	Ser	Gln	His	Glu	Ala	Lys	Ile
625					630					635					640
Arg	Ser	Leu	Thr	Glu	Tyr	Met	Gln	Thr	Val	Glu	Leu	Lys	Lys	Arg	His
				645					650					655	
Leu	Glu	Glu	Ser	Tyr	Asp	Ser	Leu	Ser	Asp	Glu	Leu	Ala	Arg	Leu	Gln
			660					665					670		
Ala	His	Glu	Thr	Val	His	Glu	Val	Ala	Leu	Lys	Asp	Lys	Glu	Pro	Asp
		675					680					685			
Thr	Gln	Asp	Ala	Glu	Glu	Val	Lys	Lys	Ala	Leu	Glu	Leu	Gln	Met	Glu
	690					695					700				
Asn	His	Arg	Glu	Ala	His	His	Arg	Gln	Leu	Ala	Arg	Leu	Arg	Asp	Glu
705					710					715					720
Ile	Asn	Glu	Lys	Gln	Lys	Thr	Ile	Asp	Glu	Leu	Lys	Asp	Leu	Asn	Gln
				725					730					735	
Lys	Leu	Gln	Leu	Glu	Leu	Glu	Lys	Leu	Gln	Ala	Asp	Tyr	Glu	Arg	Leu
			740					745					750		
Lys	Asn	Glu	Glu	Asn	Glu	Lys	Ser	Ala	Lys	Leu	Gln	Glu	Leu	Thr	Phe
		755					760					765			
Leu	Tyr	Glu	Arg	His	Glu	Gln	Ser	Lys	Gln	Asp	Leu	Lys	Gly	Leu	Glu
	770					775				780					
Glu	Thr	Val	Ala	Arg	Glu	Leu	Gln	Thr	Leu	His	Asn	Leu	Arg	Lys	Leu
785					790					795					800
Phe	Val	Gln	Asp	Val	Thr	Thr	Arg	Val	Lys	Lys	Ser	Ala	Glu	Met	Glu
				805					810					815	
Pro	Glu	Asp	Ser	Gly	Gly	Ile	His	Ser	Gln	Lys	Gln	Lys	Ile	Ser	Phe
			820					825					830		
Leu	Glu	Asn	Asn	Leu	Glu	Gln	Leu	Thr	Lys	Val	His	Lys	Gln	Leu	Val
		835					840					845			
Arg	Asp	Asn	Ala	Asp	Leu	Arg	Cys	Glu	Leu	Pro	Lys	Leu	Glu	Lys	Arg
	850					855					860				
Leu	Arg	Ala	Thr	Ala	Glu	Arg	Val	Lys	Ala	Leu	Glu	Gly	Ala	Leu	Lys
865					870					875					880
Glu	Ala	Lys	Glu	Gly	Ala	Met	Lys	Asp	Lys	Arg	Arg	Tyr	Gln	Gln	Glu
				885					890					895	
Val	Asp	Arg	Ile	Lys	Glu	Ala	Val	Arg	Tyr	Lys	Ser	Ser	Gly	Lys	Arg
			900					905					910		
Gly	His	Ser	Ala	Gln	Ile	Ala	Lys	Pro	Val	Arg	Pro	Gly	His	Tyr	Pro
		915					920					925			
Ala	Ser	Ser	Pro	Thr	Asn	Pro	Tyr	Gly	Thr	Arg	Ser	Pro	Glu	Cys	Ile
	930					935					940				
Ser	Tyr	Thr	Asn	Asn	Leu	Phe	Gln	Asn	Tyr	Gln	Asn	Leu	His	Leu	Gln





Thr Asp Met Ala Gln Leu Glu Thr Cys Val Arg Ser Ile Gln Leu Asp  
 210 215 220  
 Gly Leu Val Trp Gly Ala Ser Lys Leu Val Pro Val Gly Tyr Gly Ile  
 225 230 235 240  
 Arg Lys Leu Gln Ile Gln Cys Val Val Glu Asp Asp Lys Val Gly Thr  
 245 250 255  
 Asp Leu Leu Glu Glu Glu Ile Thr Lys Phe Glu Glu His Val Gln Ser  
 260 265 270  
 Val Asp Ile Ala Ala Phe Asp Lys Ile  
 275 280

<210> 96  
 <211> 73  
 <212> PRT  
 <213> Mus musculus

<400> 96  
 Glu Leu Ile Val Arg Ile Thr Ser Leu Glu Val Glu Asn Gln Asn Leu  
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 Arg Gly Val Val Gln Asp Leu Gln Gln Ala Ile Ser Lys Leu Glu Ala  
 20 25 30  
 Arg Leu Ser Ser Leu Glu Lys Ser Pro Thr Pro Arg Ala Thr Ala  
 35 40 45  
 Pro Gln Thr Gln His Val Ser Pro Met Arg Gln Val Glu Pro Pro Thr  
 50 55 60  
 Lys Lys Gly Ala Thr Pro Ala Glu Val  
 65 70

<210> 97  
 <211> 66  
 <212> PRT  
 <213> Mus musculus

<400> 97  
 Ile Thr Ser Leu Glu Val Glu Asn Gln Asn Leu Arg Gly Val Val Gln  
 1 5 10 15  
 Asp Leu Gln Gln Ala Ile Ser Lys Leu Glu Ala Arg Leu Ser Ser Leu  
 20 25 30  
 Glu Lys Ser Ser Pro Thr Pro Arg Ala Thr Thr Pro Gln Thr Gln His  
 35 40 45  
 Val Ser Pro Met Arg Gln Val Glu Pro Pro Thr Lys Lys Gly Ala Thr  
 50 55 60  
 Pro Ala  
 65

<210> 98  
 <211> 89  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> UNSURE  
 <222> (57)

<400> 98  
 Asp His Ser Glu Leu Ile Val Arg Ile Thr Ser Leu Glu Val Glu Asn  
 1 5 10 15  
 Gln Asn Leu Arg Gly Val Val Gln Asp Leu Gln Gln Ala Ile Ser Lys  
 20 25 30  
 Leu Glu Ala Arg Leu Ser Ser Leu Glu Lys Ser Ser Pro Thr Pro Arg  
 35 40 45  
 Ala Thr Ala Pro Gln Thr Gln His Xaa Phe Pro Leu Arg Gln Val Glu  
 50 55 60  
 Pro Pro Thr Lys Lys Gly Ala Thr Pro Ala Glu Asp Asp Glu Asp Lys  
 30

65                      70                      75                      80  
Asp Ile Asp Leu Phe Gly Arg Asn Glu  
                      85

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<210> 99
<211> 118
<212> PRT
<213> Mus musculus
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[illegible]

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<210> 100
<211> 849
<212> PRT
<213> Mus musculus
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<400>	100															
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Val	Pro	Thr	Glu	Thr	Arg	Ser	Ser	Phe	Ser	Arg	Val	Ser	Gly	Ser	Pro	
			20					25					30			
Ser	Ser	Gly	Phe	Arg	Ser	Gln	Ser	Trp	Ser	Arg	Gly	Ser	Pro	Ser	Thr	
		35					40					45				
Val	Ser	Ser	Ser	Tyr	Thr	Arg	Ser	Ala	Val	Ala	Pro	Arg	Leu	Ala	Tyr	
	50					55					60					
Ser	Ser	Ala	Met	Leu	Ser	Ser	Ala	Glu	Ser	Ser	Leu	Asp	Phe	Ser	Gln	
65				70						75					80	
Ser	Ser	Ser	Leu	Leu	Asn	Gly	Gly	Ser	Gly	Gly	Asp	Tyr	Lys	Leu	Ser	
				85					90					95		
Arg	Ser	Asn	Glu	Lys	Glu	Gln	Leu	Gln	Gly	Leu	Asn	Asp	Arg	Phe	Ala	
			100					105					110			
Gly	Tyr	Ile	Glu	Lys	Val	His	Tyr	Leu	Glu	Gln	Gln	Asn	Lys	Glu	Ile	
		115					120					125				
Glu	Ala	Glu	Ile	Gln	Ala	Leu	Arg	Gln	Lys	Gln	Ala	Ser	His	Ala	Gln	
	130					135					140					
Leu	Gly	Asp	Ala	Tyr	Asp	Gln	Glu	Ile	Arg	Glu	Leu	Arg	Ala	Thr	Leu	
145				150						155					160	

Glu	Met	Val	Asn	His	Glu	Lys	Ala	Gln	Val	Gln	Leu	Asp	Ser	Asp	His
				165					170					175	
Leu	Glu	Glu	Asp	Ile	His	Arg	Leu	Lys	Glu	Arg	Phe	Glu	Glu	Glu	Ala
			180					185					190		
Arg	Leu	Arg	Asp	Asp	Thr	Glu	Ala	Ala	Ile	Arg	Ala	Leu	Arg	Lys	Asp
		195					200					205			
Ile	Glu	Glu	Ser	Ser	Met	Val	Lys	Val	Glu	Leu	Asp	Lys	Lys	Val	Gln
	210					215					220				
Ser	Leu	Gln	Asp	Glu	Val	Ala	Phe	Leu	Arg	Arg	Asn	His	Glu	Glu	Glu
225					230					235					240

Val	Ala	Asp	Leu	Leu	Ala	Gln	Ile	Gln	Ala	Ser	His	Ile	Thr	Val	Glu
			245						250					255	
Arg	Lys	Asp	Tyr	Leu	Lys	Thr	Asp	Ile	Ser	Thr	Ala	Leu	Lys	Glu	Ile
			260					265					270		
Arg	Ser	Gln	Leu	Glu	Cys	His	Ser	Asp	Gln	Asn	Met	His	Gln	Ala	Glu
		275					280					285			
Glu	Trp	Phe	Lys	Cys	Arg	Tyr	Ala	Lys	Leu	Thr	Glu	Ala	Ala	Glu	Gln
	290					295					300				
Asn	Lys	Glu	Ala	Ile	Arg	Ser	Ala	Lys	Glu	Glu	Ile	Ala	Glu	Tyr	Arg
	305				310					315					320
Arg	Gln	Leu	Gln	Ser	Lys	Ser	Ile	Glu	Leu	Glu	Ser	Val	Arg	Gly	Thr
			325						330					335	
Lys	Glu	Ser	Leu	Glu	Arg	Gln	Leu	Ser	Asp	Ile	Glu	Glu	Arg	His	Asn
			340					345					350		
His	Asp	Leu	Ser	Ser	Tyr	Gln	Asp	Thr	Ile	Gln	Gln	Leu	Glu	Asn	Glu
		355					360					365			
Leu	Arg	Gly	Thr	Lys	Trp	Glu	Met	Ala	Arg	His	Leu	Arg	Glu	Tyr	Gln
	370					375					380				
Asp	Leu	Leu	Asn	Val	Lys	Met	Ala	Leu	Asp	Ile	Glu	Ile	Ala	Ala	Tyr
	385				390					395					400
Arg	Lys	Leu	Leu	Glu	Gly	Glu	Glu	Thr	Arg	Phe	Ser	Thr	Phe	Ser	Gly
				405					410					415	
Ser	Ile	Thr	Gly	Pro	Leu	Tyr	Thr	His	Arg	Gln	Pro	Ser	Val	Thr	Ile
			420					425					430		
Ser	Ser	Lys	Ile	Gln	Lys	Thr	Lys	Val	Glu	Ala	Pro	Lys	Leu	Lys	Val
		435					440					445			
Gln	His	Lys	Phe	Val	Glu	Glu	Ile	Ile	Glu	Glu	Thr	Lys	Val	Glu	Asp
	450					455					460				
Glu	Lys	Ser	Glu	Met	Glu	Glu	Thr	Leu	Thr	Ala	Ile	Ala	Glu	Glu	Leu
	465				470					475					480
Ala	Ala	Ser	Ala	Lys	Glu	Glu	Lys	Glu	Glu	Ala	Glu	Glu	Lys	Glu	Glu
				485					490					495	
Glu	Pro	Glu	Ala	Glu	Lys	Ser	Pro	Val	Lys	Ser	Pro	Glu	Ala	Lys	Glu
			500					505					510		
Glu	Glu	Glu	Glu	Gly	Glu	Lys	Glu	Glu	Glu	Glu	Glu	Gly	Gln	Glu	Glu
		515					520					525			
Glu	Glu	Glu	Glu	Asp	Glu	Gly	Val	Lys	Ser	Asp	Gln	Ala	Glu	Glu	Gly
	530					535					540				
Gly	Ser	Glu	Lys	Glu	Gly	Ser	Ser	Glu	Lys	Asp	Glu	Gly	Glu	Gln	Glu
	545				550					555					560
Glu	Glu	Glu	Gly	Glu	Thr	Glu	Ala	Glu	Gly	Glu	Gly	Glu	Glu	Ala	Glu
				565					570					575	
Ala	Lys	Glu	Glu	Lys	Lys	Ile	Glu	Gly	Lys	Val	Glu	Glu	Val	Ala	Val
			580					585					590		
Lys	Glu	Glu	Ile	Lys	Val	Glu	Lys	Pro	Glu	Lys	Ala	Lys	Ser	Pro	Met
		595					600					605			
Pro	Lys	Ser	Pro	Val	Glu	Glu	Val	Lys	Pro	Lys	Pro	Glu	Ala	Lys	Ala
	610					615					620				
Gly	Lys	Gly	Glu	Gln	Lys	Glu	Glu	Glu	Lys	Val	Glu	Glu	Glu	Lys	Lys
	625				630					635					640
Glu	Val	Thr	Lys	Glu	Ser	Pro	Lys	Glu	Glu	Lys	Val	Glu	Lys	Lys	Glu
				645					650					655	
Glu	Lys	Pro	Lys	Asp	Val	Ala	Asp	Lys	Lys	Lys	Ala	Glu	Ser	Pro	Val
			660					665					670		
Lys	Glu	Lys	Ala	Val	Glu	Glu	Val	Ile	Thr	Ile	Ser	Lys	Ser	Val	Lys
		675					680					685			
Val	Ser	Leu	Glu	Lys	Asp	Thr	Lys	Glu	Glu	Lys	Pro	Gln	Pro	Gln	Glu
	690					695					700				
Lys	Val	Lys	Glu	Lys	Ala	Glu	Glu	Glu	Gly	Gly	Ser	Glu	Glu	Glu	Gly
	705				710					715					720
Ser	Asp	Arg	Ser	Pro	Gln	Glu	Ser	Lys	Lys	Glu	Asp	Ile	Ala	Ile	Asn
				725					730					735	
Gly	Glu	Val	Glu	Gly	Lys	Glu	Glu	Glu	Glu	Gln	Glu	Thr	Gln	Glu	Lys
			740					745					750		



Gly Ser Gly Arg Glu Glu Glu Lys Gly Val Val Thr Asn Gly Leu Asp  
           755                  760                  765  
 Val Ser Pro Ala Glu Glu Lys Lys Gly Glu Asp Ser Ser Asp Asp Lys  
       770                  775                  780  
 Val Val Val Thr Lys Lys Val Glu Lys Ile Thr Ser Glu Gly Gly Asp  
   785                  790                  795                  800  
 Gly Ala Thr Lys Tyr Ile Thr Lys Ser Val Thr Val Thr Gln Lys Val  
                   805                  810                  815  
 Glu Glu His Glu Glu Thr Phe Glu Glu Lys Leu Val Ser Thr Lys Lys  
                   820                  825                  830  
 Val Glu Lys Val Thr Ser His Ala Ile Val Lys Glu Val Thr Gln Gly  
           835                  840                  845  
 Asp

<210> 101  
 <211> 50  
 <212> PRT  
 <213> Mus musculus

<400> 101  
 Ser Tyr Gln Asp Thr Ile Gln Gln Leu Glu Asn Glu Leu Arg Gly Thr  
 1                  5                  10                  15  
 Lys Trp Glu Met Ala Arg His Leu Arg Glu Tyr Gln Asp Leu Leu Asn  
           20                  25                  30  
 Val Lys Met Ala Leu Asp Ile Glu Ile Ala Ala Tyr Arg Arg Leu Leu  
       35                  40                  45  
 Glu Gly  
       50

<210> 102  
 <211> 55  
 <212> PRT  
 <213> Mus musculus

<400> 102  
 His Asp Leu Ser Ser Tyr Gln Asp Thr Ile Gln Gln Leu Glu Asn Glu  
 1                  5                  10                  15  
 Leu Arg Gly Thr Lys Trp Glu Met Ala Arg His Leu Arg Glu Tyr Gln  
           20                  25                  30  
 Asp Leu Leu Asn Val Lys Met Ala Leu Asp Ile Glu Ile Ala Ala Tyr  
       35                  40                  45  
 Arg Lys Leu Leu Glu Gly Glu  
       50                  55

<210> 103  
 <211> 53  
 <212> PRT  
 <213> Mus musculus

<400> 103  
 Leu Ser Ser Tyr Gln Asp Thr Ile Gln Gln Leu Glu Asn Glu Leu Arg  
 1                  5                  10                  15  
 Gly Thr Lys Trp Glu Met Ala Arg His Leu Arg Glu Tyr Gln Asp Leu  
           20                  25                  30  
 Leu Asn Val Lys Met Ala Leu Asp Ile Glu Ile Ala Ala Tyr Arg Lys  
       35                  40                  45  
 Leu Leu Glu Gly Gly  
       50

<210> 104  
 <211> 38  
 <212> PRT  
 <213> Mus musculus

<400> 104  
 Leu Arg Gly Thr Lys Trp Glu Met Ala Arg His Leu Arg Glu Tyr Gln  
 1 5 10 15  
 Asp Leu Leu Asn Val Lys Met Ala Leu Asp Ile Glu Ile Ala Tyr  
 20 25 30  
 Arg Lys Leu Leu Glu Gly  
 35

<210> 105  
 <211> 996  
 <212> PRT  
 <213> Mus musculus

<400> 105  
 Met Lys Arg Ile Phe Ser Cys Ser Ser Ser Gln Val Ala Val Glu Lys  
 1 5 10 15  
 Trp Asn Arg Arg Asp Gln Lys Leu Leu Glu Ala Val Gln Arg Gly Asp  
 20 25 30  
 Val Gly Arg Val Ala Ala Leu Ala Ser Arg Lys Ser Ala Arg Pro Thr  
 35 40 45  
 Lys Leu Asp Ser Asn Gly Gln Ser Pro Phe His Leu Ala Ala Ser Lys  
 50 55 60  
 Gly Leu Thr Glu Cys Leu Thr Ile Leu Leu Ala Asn Gly Ala Asp Ile  
 65 70 75 80  
 Asn Ser Lys Asn Glu Asp Gly Ser Thr Ala Leu His Leu Ala Thr Ile  
 85 90 95  
 Ser Cys Gln Pro Gln Cys Val Lys Val Leu Leu Gln His Gly Ala Asn  
 100 105 110  
 Glu Asp Ala Val Asp Ala Glu Asn Arg Ser Pro Leu His Trp Ala Ala  
 115 120 125  
 Ser Ser Gly Cys Ala Ser Ser Val Leu Leu Leu Cys Asp His Glu Ala  
 130 135 140  
 Phe Leu Asp Val Leu Asp Asn Asp Gly Arg Thr Pro Leu Met Ile Ala  
 145 150 155 160  
 Ser Leu Gly Gly His Ala Ala Ile Cys Ser Gln Leu Leu Gln Arg Gly  
 165 170 175  
 Ala Arg Val Asn Val Thr Asp Lys Asp Asp Lys Ser Ala Leu Ile Leu  
 180 185 190  
 Ala Cys Glu Lys Gly Ser Ala Glu Val Ala Glu Leu Leu Ser His  
 195 200 205  
 Gly Ala Asp Ala Gly Ala Val Asp Ser Leu Gly His Asn Ala Leu His  
 210 215 220  
 Tyr Ala Leu Arg Thr Gln Asp Lys Glu Leu Trp Arg Leu Leu Gln Gln  
 225 230 235 240  
 Ala Leu Asn Arg Arg Arg Arg Gly Gly His Gly Leu Val Gln His Pro  
 245 250 255  
 Asp His Pro Ser Gln Ala Ser Ser Cys Glu Pro Arg Val Gly Ser Pro  
 260 265 270  
 Pro Lys Asn Ser Arg Lys Val Glu Pro Glu Glu Glu Gln Glu Glu Glu  
 275 280 285  
 Gly Glu Glu Arg Cys Ser Glu Glu Trp Arg Trp Lys Phe Glu Glu Glu  
 290 295 300  
 Gln Arg Lys Val His Gln Leu Glu Gln Glu Leu Val Arg Lys Thr Asp  
 305 310 315 320  
 Glu Cys Lys Ala His Ala Ala Ala Phe Ser Ser Leu Glu Glu Gln Ile  
 325 330 335  
 Arg Glu Gln Ala Gln Glu Leu Gly His Leu Leu Val Gln Glu Pro Gly  
 340 345 350  
 Ala Pro Gly Asn Gln Gly Pro Gly Leu Arg Pro Glu Gly Asp Gly Met  
 355 360 365  
 Glu Glu Gly Cys Pro Leu Asn Leu Leu Ala Glu Arg Ile Gln Glu Leu  
 370 375 380  
 Lys Lys Gln Gln Lys Ala Leu Ala Thr Ile Asn Pro Thr Leu Val Pro  
 34

385	Lys	Arg	Ala	Glu	Glu	390	Leu	Ala	Pro	Ala	Glu	395	Ile	His	His	Glu	Val	400	His
	Arg	Lys	Ser	Gln	405	Glu	Gln	Gly	Leu	410	Pro	Gln	Gly	Pro	Ser	415	Ser	Glu	
	Thr	Thr	Gly	Lys	420	Ala	Thr	Gly	Gln	425	Pro	Asn	Thr	Asn	Gly	Gly	Gln		
	Asn	Leu	Gly	Leu	435	Gln	Asn	Thr	Glu	440	Gln	Val	Cys	Ala	Gly	Gln	Lys	Glu	
	Arg	Thr	Pro	Ala	450	Pro	Gly	Thr	Glu	455	Thr	Ala	Gly	Thr	Val	Gly	Glu	Pro	
	Val	Gly	Ile	Ala	465	Met	Asn	Gln	Leu	470	Leu	Leu	Gln	Leu	Arg	Glu	Glu	Leu	
	Ala	Ala	Val	Trp	485	Arg	Glu	Lys	Asp	490	Ala	Ala	Arg	Gly	Ala	Leu	Ser	Arg	
	Pro	Val	Leu	Glu	500	Gly	Ala	Leu	Gly	505	Thr	Pro	Arg	Ala	Glu	Ala	Ala	Ala	
	Ala	Ala	Trp	Glu	515	Lys	Met	Glu	Ala	520	Arg	Leu	Glu	Arg	Val	Leu	Val	Arg	
	Leu	Asp	Gly	Ala	530	Lys	Met	Gly	Leu	535	His	Val	Lys	Pro	Glu	Val	Pro	Val	
	Gln	Gly	Ser	Arg	545	Asp	Gly	Ala	Pro	550	Lys	Ala	Val	Pro	Gly	Cys	Ser	Lys	
	Glu	Gln	Glu	Glu	555	Lys	Lys	Ala	Leu	565	Gly	Thr	Arg	Gly	Glu	Pro	Leu	Gly	
	Ala	Pro	Gly	Lys	580	Glu	Gln	Ala	Leu	585	Gly	Gly	Gly	Leu	Ala	Lys	Gly	Gln	
	Leu	Glu	Lys	Glu	595	Val	Ser	Ala	Leu	600	Arg	Leu	Ser	Asn	Ser	Asn	Leu	Leu	
	Glu	Glu	Leu	Gly	610	Glu	Leu	Gly	Arg	615	Glu	Arg	Gln	Arg	Leu	Gln	Gly	Glu	
	Leu	Gln	Ser	Leu	625	Thr	Gln	Arg	Leu	630	His	Arg	Glu	Phe	Val	Pro	Lys	Pro	
	Glu	Ala	Gln	Val	645	Gln	Leu	Gln	Gln	650	Arg	Arg	Ser	Val	Gly	Met	Leu		
	Thr	Glu	Glu	Leu	660	Ala	Met	Glu	Lys	665	Glu	Ala	Thr	Asp	Lys	Leu	Arg	Arg	
	Leu	Leu	Ala	Ser	675	Gln	Thr	Ser	Gly	680	Leu	Gln	Gly	Leu	Trp	Lys	Cys	Leu	
	Pro	Pro	Asp	Leu	690	Val	Gly	Lys	Gly	695	Asn	Thr	Gln	Ser	Thr	Ala	Ala	Glu	
	Pro	Leu	Glu	Glu	705	Leu	Gln	Ala	Cys	710	Ile	Ser	Thr	Leu	Val	Asp	Arg	His	
	Leu	Glu	Ala	Gln	725	Arg	Val	Leu	Ala	730	Leu	Glu	Glu	Glu	Glu	Asn	Gln	Gln	
	Leu	Arg	Gly	Ser	740	Leu	Ala	Pro	Cys	745	Gly	Glu	Pro	Glu	Ala	Ser	Leu	Lys	
	Val	Thr	Ala	Ser	755	Pro	Gln	Val	Ala	760	Ala	Ala	Leu	Glu	Glu	Asp	Leu	Gly	Met
	Leu	Glu	Glu	Glu	770	Leu	Arg	Ala	Val	775	Gln	Ala	Thr	Met	Ser	Gly	Lys	Ser	
	Gln	Glu	Ile	Cys	785	Lys	Leu	Lys	Gln	790	Leu	Leu	Tyr	Gln	Ala	Thr	Glu	Glu	
	Val	Ala	Glu	Leu	805	Arg	Ala	Arg	Glu	810	Ala	Ala	Ser	Leu	Arg	Gln	His	Glu	
	Lys	Thr	Arg	Gly	820	Ser	Leu	Val	Ala	825	Gln	Ala	Gln	Ala	Trp	Gly	Gln	Glu	
	Leu	Lys	Val	Val	835	Leu	Glu	Lys	Tyr	840	Asn	Thr	Ala	Cys	Arg	Glu	Met	Thr	
	Arg	Leu	Arg	Asp	850	Thr	Val	Ala	Glu	855	Glu	Glu	Arg	Arg	Arg	Ser	Glu	Asp	Leu
	Ala	Ala	Arg	Ala	865	Glu	Gln	Glu	Arg	870	Gln	Ala	Gly	Glu	Met	Arg	Gly		
	Arg	Ser	Glu	Gln	885	Phe	Glu	Lys	Thr	890	Ala	Glu	Leu	Leu	Lys	Glu	Lys	Thr	

```

      900      905      910
Asn His Leu Ile Gly Ala Cys Arg Asp Lys Glu Ala Lys Ile Lys Glu
      915      920      925
Leu Leu Lys Lys Leu Glu Gln Leu Ser Glu Glu Val Leu Glu Val Arg
      930      935      940
Gly Glu Asn Ala His Leu Ala Leu Gln Leu Gln Asp Ser Gln Lys Asn
945      950      955
His Glu Glu Ile Ile Ser Thr Tyr Arg Ser His Leu Leu Asn Ala Ala
      965      970      975
Arg Gly Tyr Met Glu Gln Asp Val Tyr Asn Ile Leu Leu Arg Ile Leu
      980      985      990

```

```

Ser Met Gln Glu
      995

```

```

<210> 106
<211> 68
<212> PRT
<213> Mus musculus

```

```

<400> 106
Gly Leu Ala Lys Gly Gln Leu Glu Lys Glu Val Ser Ala Leu Arg Leu
1      5      10      15
Ser Asn Ser Asn Leu Leu Glu Glu Leu Gly Glu Leu Gly Arg Glu Arg
      20      25      30
Gln Arg Leu Gln Gly Glu Leu Gln Ser Leu Thr Gln Arg Leu His Arg
      35      40      45
Glu Phe Val Pro Lys Pro Glu Ala Gln Val Gln Leu Gln Gln Leu Arg
      50      55      60
Arg Ser Val Arg
65

```

```

<210> 107
<211> 68
<212> PRT
<213> Mus musculus

```

```

<400> 107
Gly Leu Ala Lys Gly Gln Leu Glu Lys Glu Val Ser Ala Leu Arg Leu
1      5      10      15
Ser Asn Ser Asn Leu Leu Glu Glu Leu Gly Glu Leu Gly Arg Glu Arg
      20      25      30
Gln Arg Leu Gln Gly Glu Leu Gln Ser Leu Thr Gln Arg Leu His Arg
      35      40      45
Glu Phe Val Pro Lys Pro Glu Ala Gln Val Gln Leu Gln Gln Leu Arg
      50      55      60
Arg Ser Met Arg
65

```

```

<210> 108
<211> 68
<212> PRT
<213> Mus musculus

```

```

<400> 108
Gly Leu Ala Lys Gly Gln Leu Glu Lys Glu Val Ser Ala Leu Gly Leu
1      5      10      15
Ser Asn Ser Asn Leu Leu Glu Glu Leu Gly Glu Leu Gly Arg Glu Arg
      20      25      30
Gln Arg Leu Gln Gly Glu Leu Gln Ser Leu Thr Gln Arg Leu His Arg
      35      40      45
Glu Phe Val Pro Lys Pro Glu Ala Gln Val Leu Leu Gln Gln Leu Arg
      50      55      60
Arg Ser Val Met

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65

<210> 109  
 <211> 450  
 <212> PRT  
 <213> Mus musculus

<400> 109  
 Met Met Asp Val Ser Arg Thr Gln Thr Ala Val Ser Ile Val Glu Glu  
 1 5 10 15  
 Asp Leu Lys Leu Leu Gln Leu Lys Leu Arg Ala Ser Met Ser Thr Lys  
 20 25 30  
 Cys Asn Leu Glu Asp Gln Ile Lys Lys Leu Glu Asp Asp Arg Ser Ser  
 35 40 45  
 Leu Gln Thr Ala Lys Ala Gly Leu Glu Asp Glu Cys Lys Thr Leu Arg  
 50 55 60  
 Gln Lys Val Glu Ile Leu Asn Glu Leu Tyr Gln Gln Lys Glu Met Ala  
 65 70 75 80  
 Leu Gln Lys Lys Leu Ser Gln Glu Glu Tyr Glu Arg Gln Asp Arg Glu  
 85 90 95  
 Gln Arg Leu Thr Ala Ala Asp Glu Lys Val Val Leu Ala Ala Glu Glu  
 100 105 110  
 Val Lys Thr Tyr Lys Arg Arg Ile Glu Met Glu Glu Glu Leu Gln  
 115 120 125  
 Lys Thr Glu Arg Ser Phe Lys Asn Gln Ile Ala Ala His Glu Lys Lys  
 130 135 140  
 Ala His Asp Asn Trp Leu Lys Ala Arg Ala Ala Glu Arg Ala Met Ala  
 145 150 155 160  
 Glu Glu Lys Arg Glu Ala Ala Asn Leu Arg His Lys Leu Leu Glu Met  
 165 170 175  
 Thr Gln Lys Met Ala Met Arg Gln Asp Glu Pro Val Ile Val Lys Pro  
 180 185 190  
 Met Pro Gly Arg Pro Asn Thr Gln Asn Pro Pro Arg Arg Gly Leu Leu  
 195 200 205  
 Ser Gln Asn Gly Ser Phe Gly Pro Ser Pro Val Ser Gly Gly Glu Cys  
 210 215 220  
 Ser Pro Pro Leu Pro Ala Glu Pro Pro Gly Arg Pro Leu Ser Ala Thr  
 225 230 235 240  
 Leu Ser Arg Arg Asp Thr Pro Arg Ser Glu Phe Gly Ser Leu Asp Arg  
 245 250 255  
 His Leu Pro Arg Pro Arg Trp Pro Ser Glu Ala Ser Gly Lys His Ser  
 260 265 270  
 Ala Ser Asp Pro Gly Pro Ala Pro Val Val Asn Ser Ser Arg Ser  
 275 280 285  
 Ser Ser Pro Ala Lys Ala Val Asp Glu Gly Lys Val Asn Met Ala Pro  
 290 295 300  
 Lys Gly Pro Pro Pro Phe Pro Gly Val Pro Leu Met Gly Gly Pro Val  
 305 310 315 320  
 Pro Pro Pro Ile Arg Tyr Gly Pro Pro Pro Gln Leu Cys Gly Gly Pro  
 325 330 335  
 Phe Gly Pro Arg Pro Leu Pro Pro Phe Val Pro Gly Met His Pro  
 340 345 350  
 Pro Leu Gly Val Arg Glu Tyr Ala Pro Gly Val Leu Pro Gly Lys Arg  
 355 360 365  
 Asp Leu Pro Leu Asp Pro Arg Glu Phe Leu Pro Gly His Thr Pro Phe  
 370 375 380  
 Arg Pro Pro Gly Ser Leu Gly Pro Arg Glu Phe Phe Ile Pro Gly Thr  
 385 390 395 400  
 Arg Leu Pro Pro Pro Thr His Gly Pro Gln Glu Tyr Pro Pro Pro Pro  
 405 410 415  
 Pro Ala Val Arg Asp Ser Leu Pro Ser Gly Pro Arg Glu Glu Ala Lys  
 420 425 430  
 Pro Ala Ser Pro Ser Ser Val Gln Asp Arg Ser Gln Ala Ser Lys Pro  
 435 440 445

Thr Pro  
450

<210> 110  
<211> 58  
<212> PRT  
<213> Mus musculus

<400> 110  
Leu Leu Gln Leu Lys Leu Arg Ala Ser Met Ser Thr Lys Cys Asn Leu  
1 5 10 15  
Glu Asn Gln Ile Lys Lys Leu Glu Asp Asp Arg Ser Ser Leu Gln Thr  
20 25 30  
Ala Lys Ala Gly Leu Glu Asp Glu Cys Lys Thr Leu Arg Gln Lys Val  
35 40 45  
Glu Ile Leu Asn Glu Leu Tyr Leu Gln Thr  
50 55

<210> 111  
<211> 44  
<212> PRT  
<213> Mus musculus

<400> 111  
Leu Glu Asp Gln Ile Lys Lys Leu Glu Asp Asp Arg Ser Ser Leu Gln  
1 5 10 15  
Thr Ala Lys Ala Gly Leu Glu Asp Glu Cys Lys Thr Leu Arg Gln Lys  
20 25 30  
Val Glu Ile Leu Asn Glu Leu Tyr Gln Gln Ser Arg  
35 40

<210> 112  
<211> 225  
<212> PRT  
<213> Mus musculus

<400> 112  
His Leu Arg Lys Val Lys Phe Gln Ala Lys Leu Glu His Glu Tyr Ile  
1 5 10 15  
His Asn Phe Lys Val Leu Gln Ala Ala Phe Lys Lys Met Gly Val Asp  
20 25 30  
Lys Ile Ile Pro Val Glu Lys Leu Val Lys Gly Lys Phe Gln Asp Asn  
35 40 45  
Phe Glu Phe Ile Gln Trp Phe Lys Lys Phe Phe Asp Ala Asn Tyr Asp  
50 55 60  
Gly Lys Asp Tyr Asn Pro Glu Leu Ala Arg Gln Gly Gln Asp Val Ala  
65 70 75 80  
Pro Pro Pro Asn Pro Gly Asp Gln Ile Phe Asn Lys Ser Lys Lys Leu  
85 90 95  
Ile Gly Thr Ala Val Pro Gln Arg Thr Ser Pro Thr Gly Pro Lys Asn  
100 105 110  
Met Gln Thr Ser Gly Arg Leu Ser Asn Val Ala Pro Pro Cys Ile Leu  
115 120 125  
Arg Lys Asn Pro Pro Ser Ala Arg Asn Gly Gly His Glu Ala Asp Ala  
130 135 140  
Gln Ile Leu Glu Leu Asn Gln Gln Leu Leu Asp Leu Lys Leu Thr Val  
145 150 155 160  
Asp Gly Leu Glu Lys Glu Arg Asp Phe Tyr Phe Ser Lys Leu Arg Asp  
165 170 175  
Ile Glu Leu Ile Cys Gln Glu His Glu Ser Glu Asn Ser Pro Val Ile  
180 185 190  
Ser Gly Ile Ile Gly Ile Leu Tyr Ala Thr Glu Glu Gly Phe Ala Pro  
195 200 205  
Pro Glu Asp Asp Glu Ile Glu Glu His Gln Gln Glu Asp Gln Asp Glu  
38

210 215 220

Tyr  
225

<210> 113  
<211> 86  
<212> PRT  
<213> Mus musculus

<400> 113  
Arg Asn Gly Gly His Glu Ala Asp Ala Gln Ile Leu Glu Leu Asn Gln  
1 5 10 15  
Gln Leu Leu Asp Leu Lys Leu Thr Val Asp Gly Leu Glu Arg Glu Arg  
20 25 30  
Asp Phe Tyr Phe Ser Lys Leu Arg Asp Ile Glu Leu Ile Cys Gln Glu  
35 40 45  
His Glu Ser Glu Asn Ser Pro Val Ile Ser Gly Ile Ile Gly Ile Leu  
50 55 60  
Tyr Ala Thr Glu Glu Gly Phe Ala Pro Pro Glu Asp Asp Glu Ile Glu  
65 70 75 80  
Glu His Gln Gln Glu Glu  
85

<210> 114  
<211> 485  
<212> PRT  
<213> Mus musculus

<400> 114  
Met Asn Asn Phe Glu Cys Glu Pro Ala Phe Tyr Thr Cys Val Glu Val  
1 5 10 15  
Thr Ala Gly Asn Arg Leu Phe Tyr His Ile Val Asp Ser Asp Glu Val  
20 25 30  
Ser Thr Lys Ile Leu Met Glu Phe Asn Lys Met Asn Leu Pro Gly Glu  
35 40 45  
Val Thr Phe Leu Pro Leu Asn Lys Leu Asp Val Arg Asp Thr Ala Tyr  
50 55 60  
Pro Glu Thr Asn Asp Ala Ile Pro Met Ile Ser Lys Leu Arg Tyr Asn  
65 70 75 80  
Pro Arg Phe Asp Lys Ala Phe Lys His Val Phe Gly Lys Thr Leu Ile  
85 90 95  
Cys Arg Ser Met Glu Val Ser Thr Gln Leu Ala Arg Ala Phe Thr Met  
100 105 110  
Asp Cys Ile Thr Leu Glu Gly Asp Gln Val Ser His Arg Gly Ala Leu  
115 120 125  
Thr Gly Gly Tyr Tyr Asp Thr Arg Lys Ser Arg Leu Glu Leu Gln Lys  
130 135 140  
Asp Val Arg Lys Ala Glu Glu Glu Leu Gly Glu Leu Glu Ala Lys Leu  
145 150 155 160  
Asn Glu Asn Leu Arg Arg Asn Ile Glu Arg Ile Asn Asn Glu Ile Asp  
165 170 175  
Gln Leu Met Asn Gln Met Gln Gln Ile Glu Thr Gln Gln Arg Lys Phe  
180 185 190  
Lys Ala Ser Arg Asp Ser Ile Leu Ser Glu Met Lys Met Leu Lys Glu  
195 200 205  
Lys Arg Gln Gln Ser Glu Lys Thr Phe Met Pro Lys Gln Arg Ser Leu  
210 215 220  
Gln Ser Leu Glu Ala Ser Leu His Ala Met Glu Ser Thr Arg Glu Ser  
225 230 235 240  
Leu Lys Ala Glu Leu Gly Thr Asp Leu Leu Ser Gln Leu Ser Leu Glu  
245 250 255  
Asp Gln Lys Arg Val Asp Ala Leu Asn Asp Glu Ile Arg Gln Leu Gln  
260 265 270  
Gln Glu Asn Arg Gln Leu Leu Asn Glu Arg Ile Lys Leu Glu Gly Ile  
39

Ile	Thr	Arg	Val	Glu	Thr	Tyr	Leu	Asn	Glu	Asn	Leu	Arg	Lys	Arg	Leu
290						295					300				
Asp	Gln	Val	Glu	Gln	Glu	Leu	Asn	Glu	Leu	Arg	Glu	Thr	Glu	Gly	Gly
305					310					315					320
Thr	Val	Leu	Thr	Ala	Thr	Thr	Ser	Glu	Leu	Glu	Ala	Ile	Asn	Lys	Arg
				325					330					335	
Val	Lys	Asp	Thr	Met	Ala	Arg	Ser	Glu	Asp	Leu	Asp	Asn	Ser	Ile	Asp
			340					345					350		
Lys	Thr	Glu	Ala	Gly	Ile	Lys	Glu	Leu	Gln	Lys	Ser	Met	Glu	Arg	Trp
		355					360					365			
Lys	Asn	Met	Glu	Lys	Glu	His	Met	Asp	Ala	Ile	Asn	His	Asp	Thr	Lys
	370					375					380				
Glu	Leu	Glu	Lys	Met	Thr	Asn	Arg	Gln	Gly	Met	Leu	Leu	Lys	Lys	Lys
385					390					395					400
Glu	Glu	Cys	Met	Lys	Lys	Ile	Arg	Glu	Leu	Gly	Ser	Leu	Pro	Gln	Glu
				405					410					415	
Ala	Phe	Glu	Lys	Tyr	Gln	Thr	Leu	Ser	Leu	Lys	Gln	Leu	Phe	Arg	Lys
			420					425					430		
Leu	Glu	Gln	Cys	Asn	Thr	Glu	Leu	Lys	Lys	Tyr	Ser	His	Val	Asn	Lys
		435					440					445			
Lys	Ala	Leu	Asp	Gln	Phe	Val	Asn	Phe	Ser	Glu	Gln	Lys	Glu	Arg	Leu
	450					455					460				
Ile	Lys	Arg	Gln	Glu	Glu	Leu	Asp	Arg	Gly	Tyr	Lys	Ser	Ile	Met	Glu
465					470					475					480
Leu	Met	Lys	Cys	Thr											
				485											

<210> 115  
 <211> 73  
 <212> PRT  
 <213> Mus musculus

<400> 115  
 Gln Lys Arg Val Asp Ala Leu Asn Asp Glu Ile Arg Gln Leu Gln Gln  
 1 5 10 15  
 Glu Asn Arg Gln Leu Leu Asn Glu Arg Ile Lys Leu Glu Gly Ile Ile  
 20 25 30  
 Thr Arg Val Glu Thr Tyr Leu Asn Glu Asn Leu Arg Lys Arg Leu Asp  
 35 40 45  
 Gln Val Glu Gln Glu Leu Asn Glu Leu Arg Glu Thr Glu Gly Gly Thr  
 50 55 60  
 Val Leu Thr Ala Thr Thr Ser Glu Lys  
 65 70

<210> 116  
 <211> 1337  
 <212> PRT  
 <213> Mus musculus

<400> 116  
 Met Met Glu Ile Gln Met Asp Glu Gly Gly Gly Val Val Val Tyr Gln  
 1 5 10 15  
 Asp Asp Tyr Cys Ser Gly Ser Val Met Ser Glu Arg Val Ser Gly Leu  
 20 25 30  
 Ala Gly Ser Ile Tyr Arg Glu Phe Glu Arg Leu Ile His Cys Tyr Asp  
 35 40 45  
 Glu Glu Val Val Lys Glu Leu Met Pro Leu Val Val Asn Val Leu Glu  
 50 55 60  
 Asn Leu Asp Ser Val Leu Ser Glu Asn Gln Glu His Glu Val Glu Leu  
 65 70 75 80  
 Glu Leu Leu Arg Glu Asp Asn Glu Gln Leu Thr Gln Tyr Glu Arg  
 85 90 95  
 Glu Lys Ala Leu Arg Lys Gln Ala Glu Glu Lys Phe Ile Glu Phe Glu  
 40



Asp	Ala	Leu	100 Glu	Gln	Glu	Lys	Lys	105 Glu	Leu	Gln	Ile	Gln	110 Val	Glu	His
Tyr	Glu	Phe	115 Gln	Thr	Arg	Gln	Leu	120 Glu	Leu	Lys	Ala	Lys	125 Asn	Tyr	Ala
Asp	Gln	Ile	Ser	Arg	Leu	Glu	Glu	Arg	Glu	Ser	Glu	Met	Lys	Lys	Glu
145	Asn	Ala	Leu	His	Gln	Arg	His	Thr	Glu	Met	Ile	Gln	Thr	Tyr	Val
Tyr	His	Ile	Glu	Arg	Ser	Lys	Met	Gln	Gln	Val	Gly	Gly	Ser	Gly	Gln
	Thr	Glu	Ser	Leu	Pro	Gly	Arg	Ser	Arg	Lys	Glu	Arg	Pro	Thr	Ser
	Leu	Asn	Val	Phe	Pro	Leu	Ala	Asp	Gly	Met	Val	Arg	Ala	Gln	Met
	Gly	Lys	Leu	Val	Pro	Ala	Gly	Asp	His	Trp	His	Leu	Ser	Asp	Leu
225	Gln	Leu	Gln	Ser	Ser	Ser	Tyr	Gln	Cys	Pro	Asn	Asp	Glu	Met	Ser
	Glu	Ser	Gly	Gln	Ser	Ser	Ala	Ala	Ala	Thr	Pro	Ser	Thr	Thr	Gly
	Lys	Ser	Asn	Thr	Pro	Thr	Ser	Ser	Val	Pro	Ser	Ala	Ala	Val	Thr
	Leu	Asn	Glu	Ser	Leu	Gln	Pro	Gly	Asp	Tyr	Val	Ser	Val	Thr	Lys
	Asn	Asn	Lys	Gln	Ala	Arg	Glu	Lys	Arg	Asn	Ser	Arg	Asn	Met	Glu
305	Gln	Val	Thr	Gln	Glu	Met	Arg	Asn	Val	Ser	Ile	Gly	Met	Gly	Val
	Asp	Glu	Trp	Ser	Asp	Val	Gln	Asp	Ile	Ile	Asp	Ser	Thr	Pro	Glu
	Asp	Val	Cys	Pro	Glu	Thr	Arg	Leu	Glu	Arg	Thr	Gly	Ser	Ser	Pro
	Gln	Gly	Ile	Val	Asn	Lys	Ala	Leu	Gly	Ile	Asn	Thr	Asp	Ser	Leu
	His	Glu	Leu	Ser	Thr	Ala	Gly	Ser	Glu	Val	Ile	Gly	Asp	Val	Asp
385	Gly	Ala	Asp	Leu	Leu	Gly	Glu	Phe	Ser	Val	Arg	Asp	Asp	Phe	Gly
	Met	Gly	Lys	Glu	Val	Gly	Asn	Leu	Leu	Glu	Asn	Ser	Gln	Phe	Leu
	Glu	Thr	Lys	Asn	Ala	Leu	Asn	Val	Val	Lys	Asn	Asp	Leu	Ile	Ala
	Val	Asp	Gln	Leu	Ser	Gly	Glu	Gln	Glu	Val	Leu	Lys	Gly	Glu	Glu
	Ala	Ala	Lys	Gln	Ala	Lys	Val	Lys	Leu	Glu	Asn	Arg	Ile	Lys	Glu
465	Glu	Glu	Glu	Leu	Lys	Arg	Val	Lys	Ser	Glu	Ala	Val	Thr	Ala	Arg
	Glu	Pro	Arg	Glu	Glu	Val	Glu	Asp	Val	Ser	Ser	Tyr	Leu	Cys	Glu
	Leu	Asp	Lys	Ile	Pro	Met	Ala	Gln	Arg	Arg	Arg	Phe	Thr	Arg	Val
	Met	Ala	Arg	Val	Leu	Met	Glu	Arg	Asn	Gln	Tyr	Lys	Glu	Arg	Leu
	Glu	Leu	Gln	Glu	Ala	Val	Arg	Trp	Thr	Glu	Met	Ile	Arg	Ala	Ser
545	Glu	His	Pro	Ser	Val	Gln	Glu	Lys	Lys	Lys	Ser	Thr	Ile	Trp	Gln
	Phe	Ser	Arg	Leu	Phe	Ser	Ser	Ser	Ser	Ser	Pro	Pro	Pro	Ala	Lys
	Ser	Tyr	Pro	Ser	Val	Asn	Ile	His	Tyr	Lys	Ser	Pro	Thr	Ala	Ala
	Phe	Ser	Gln	Arg	Arg	Ser	His	Ala	Leu	Cys	Gln	Ile	Ser	Ala	Gly

610	615	620
Arg Pro Leu Glu Phe Phe	Pro Asp Asp Asp Cys Thr Ser Ser Ala Arg	
625	630	635
Arg Glu Gln Lys Arg Glu	Gln Tyr Arg Gln Val Arg Glu His Val Arg	640
645	650	655
Asn Asp Asp Gly Arg Leu Gln Ala Cys Gly Trp Ser Leu Pro Ala Lys		
660	665	670
Tyr Lys Gln Leu Ser Pro Asn Gly Gly Gln Glu Asp Thr Arg Met Lys		
675	680	685
Asn Val Pro Val Pro Val Tyr Cys Arg Pro Leu Val Glu Lys Asp Pro		
690	695	700
Ser Thr Lys Leu Trp Cys Ala Ala Gly Val Asn Leu Ser Gly Trp Lys		
705	710	715
Pro His Glu Glu Asp Ser Ser Asn Gly Pro Lys Pro Val Pro Gly Arg		
725	730	735
Asp Pro Leu Thr Cys Asp Arg Glu Gly Glu Gly Glu Pro Lys Ser Thr		
740	745	750
His Pro Ser Pro Glu Lys Lys Lys Ala Lys Glu Thr Pro Glu Ala Asp		
755	760	765
Ala Thr Ser Ser Arg Val Trp Ile Leu Thr Ser Thr Leu Thr Thr Ser		
770	775	780
Lys Val Val Ile Ile Asp Ala Asn Gln Pro Gly Thr Ile Val Asp Gln		
785	790	795
Phe Thr Val Cys Asn Ala His Val Leu Cys Ile Ser Ser Ile Pro Ala		
805	810	815
Ala Ser Asp Ser Asp Tyr Pro Pro Gly Glu Met Phe Leu Asp Ser Asp		
820	825	830
Val Asn Pro Glu Asp Ser Gly Ala Asp Gly Val Leu Ala Gly Ile Thr		
835	840	845
Leu Val Gly Cys Ala Thr Arg Cys Asn Val Pro Arg Ser Asn Cys Ser		
850	855	860
Ser Arg Gly Asp Thr Pro Val Leu Asp Lys Gly Gln Gly Asp Val Ala		
865	870	875
Thr Thr Ala Asn Gly Lys Val Asn Pro Ser Gln Ser Thr Glu Glu Ala		
885	890	895
Thr Glu Ala Thr Glu Val Pro Asp Pro Gly Pro Ser Glu Ser Glu Ala		
900	905	910
Thr Thr Val Arg Pro Gly Pro Leu Thr Glu His Val Phe Thr Asp Pro		
915	920	925
Ala Pro Thr Pro Ser Ser Ser Thr Gln Pro Ala Ser Glu Asn Gly Ser		
930	935	940
Glu Ser Asn Gly Thr Ile Val Gln Pro Gln Val Glu Pro Ser Gly Glu		
945	950	955
Leu Ser Thr Thr Thr Ser Ser Ala Ala Pro Thr Met Trp Leu Gly Ala		
965	970	975
Gln Asn Gly Trp Leu Tyr Val His Ser Ala Val Ala Asn Trp Lys Lys		
980	985	990
Cys Leu His Ser Ile Lys Leu Lys Asp Ser Val Leu Ser Leu Val His		
995	1000	1005
Val Lys Gly Arg Val Leu Val Ala Leu Ala Asp Gly Thr Leu Ala		
1010	1015	1020
Ile Phe His Arg Gly Glu Asp Gly Gln Trp Asp Leu Ser Asn Tyr		
1025	1030	1035
His Leu Met Asp Leu Gly His Pro His His Ser Ile Arg Cys Met		
1040	1045	1050
Ala Val Val Asn Asp Arg Val Trp Cys Gly Tyr Lys Asn Lys Val		
1055	1060	1065
His Val Ile Gln Pro Lys Thr Met Gln Ile Glu Lys Ser Phe Asp		
1070	1075	1080
Ala His Pro Arg Arg Glu Ser Gln Val Arg Gln Leu Ala Trp Ile		
1085	1090	1095
Gly Asp Gly Val Trp Val Ser Ile Arg Leu Asp Ser Thr Leu Arg		
1100	1105	1110
Leu Tyr His Ala His Thr His Gln His Leu Gln Asp Val Asp Ile		

1115	Glu Pro Tyr Val Ser Lys	1120	Met Leu Gly Thr Gly	1125	Lys Leu Gly Phe
1130	Ser Phe Val Arg Ile Thr	1135	Ala Leu Leu Ile Ala	1140	Gly Asn Arg Leu
1145	Trp Val Gly Thr Gly Asn	1150	Gly Val Val Ile Ser	1155	Ile Pro Leu Thr
1160	Glu Thr Val Val Leu His	1165	Arg Gly Gln Leu Leu	1170	Gly Leu Arg Ala
1175	Asn Lys Thr Ser Pro Thr	1180	Ser Gly Glu Gly Thr	1185	Arg Pro Gly Gly
1190	Ile Ile His Val Tyr Gly	1195	Asp Asp Ser Ser Asp	1200	Lys Ala Ala Ser
1205		1210		1215	
1220	Ser Phe Ile Pro Tyr Cys	1225	Ser Met Ala Gln Ala	1230	Gln Leu Cys Phe
1235	His Gly His Arg Asp Ala	1240	Val Lys Phe Phe Val	1245	Ser Val Pro Gly
1250	Asn Val Leu Ala Thr Leu	1255	Asn Gly Ser Val Leu	1260	Asp Ser Pro Ser
1265	Glu Gly Pro Gly Pro Ala	1270	Ala Pro Ala Ala Asp	1275	Ala Glu Gly Gln
1280	Lys Leu Lys Asn Ala Leu	1285	Val Leu Ser Gly Gly	1290	Glu Gly Tyr Ile
1295	Asp Phe Arg Ile Gly Asp	1300	Gly Glu Asp Asp Glu	1305	Thr Glu Glu Cys
1310	Ala Gly Asp Val Asn Gln	1315	Thr Lys Pro Ser Leu	1320	Ser Lys Ala Glu
1325	Arg Ser His Ile Ile Val	1330	Trp Gln Val Ser Tyr	1335	Thr Pro Glu

<210> 117  
 <211> 71  
 <212> PRT  
 <213> Mus musculus

<400> 117  
 Glu Thr Lys Asn Ala Leu Asn Val Val Lys Asn Asp Leu Ile Ala Lys  
 1 5 10 15  
 Val Asp Gln Leu Ser Gly Glu Gln Glu Val Leu Lys Gly Glu Leu Glu  
 20 25 30  
 Ala Ala Lys Gln Ala Lys Val Lys Leu Glu Asn Arg Ile Lys Glu Leu  
 35 40 45  
 Glu Lys Glu Leu Lys Arg Val Lys Ser Glu Ala Val Thr Ala Arg Arg  
 50 55 60  
 Glu Pro Arg Glu Glu Val Asp  
 65 70

<210> 118  
 <211> 993  
 <212> PRT  
 <213> Mus musculus

<400> 118  
 Met Glu Ala Ala Val Cys Ser Glu Ile Glu Arg Glu Asp Gly Asp Ser  
 1 5 10 15  
 Ser Cys Gly Asp Val Cys Phe Met Asp Lys Gly Leu His Ser Ile Ser  
 20 25 30  
 Glu Leu Ser Leu Asp Ser Ser Ile His Ala Ile Asn Leu His Cys Asn  
 35 40 45  
 Asn Ile Ser Lys Ile Ser Ser Ile Asp His Ile Trp Asn Leu Arg His  
 50 55 60  
 Leu Asp Leu Ser Ser Asn Gln Ile Ser Gln Ile Glu Gly Leu Asn Thr  
 65 70 75 80

Leu	Thr	Lys	Leu	Cys	Thr	Leu	Asn	Leu	Ser	Cys	Asn	Leu	Ile	Thr	Arg
Val	Glu	Gly	Leu	Glu	Ala	Leu	Val	Asn	Leu	Thr	Lys	Leu	Asn	Leu	Ser
Tyr	Asn	His	Ile	Asn	Asp	Leu	Ser	Gly	Leu	Met	Pro	Leu	His	Gly	Leu
Lys	Tyr	Lys	Leu	Arg	Tyr	Ile	Asp	Leu	His	Ser	Asn	Tyr	Ile	Asp	Ser
Ile	His	His	Leu	Leu	Gln	Cys	Thr	Val	Gly	Leu	His	Phe	Leu	Thr	Asn
Leu	Ile	Leu	Glu	Lys	Asp	Gly	Glu	Gly	Asn	Pro	Ile	Cys	Leu	Ile	Pro
Gly	Tyr	Arg	Ala	Ile	Ile	Leu	Gln	Thr	Leu	Pro	Gln	Leu	Arg	Ile	Leu
Asp	Cys	Lys	Asn	Ile	Phe	Gly	Glu	Pro	Val	Ser	Leu	Glu	Glu	Ile	Asn
Ser	Ser	His	Leu	Gln	Cys	Leu	Glu	Gly	Leu	Leu	Asp	Asn	Leu	Val	Ser
Ser	Asp	Ser	Pro	Leu	Asn	Ile	Ser	Glu	Asp	Glu	Val	Asn	Asp	Asp	Val
Ser	Ala	Pro	Pro	Met	Asp	Val	Leu	Pro	Ser	Leu	Lys	Glu	Phe	Lys	Ser
Thr	Pro	Glu	Asp	Asn	Val	Leu	Ala	Ser	Leu	Leu	Ser	Val	Cys	Pro	Ser
Ser	Glu	Pro	Glu	Lys	Ile	Asn	Gln	Glu	Asn	Asp	Phe	Gln	Asn	Glu	Val
Lys	Leu	Gln	Lys	Leu	Asp	Asp	Gln	Ile	Leu	Gln	Leu	Leu	Asn	Glu	Thr
Asn	Asn	Ser	Leu	Ile	Asp	Asn	Val	Pro	Glu	Lys	Asp	Leu	Arg	Pro	Lys
Arg	Asp	Thr	Asp	Ile	Thr	Ser	Glu	Ser	Asp	Tyr	Gly	Asn	Arg	Arg	Glu
Cys	Ser	Arg	Lys	Val	Pro	Arg	Arg	Thr	Lys	Ile	Pro	Tyr	Tyr	Ser	Arg
Thr	Ile	Gln	Thr	Ile	Lys	His	His	Asn	Lys	Asn	Asn	Gly	Ala	Phe	Val
Ser	Cys	Asn	Arg	Lys	Met	Arg	Gln	Pro	Tyr	Leu	Arg	Asp	Leu	Tyr	Val
Arg	Ser	Ser	Leu	Val	Asn	Cys	Asn	Asn	Leu	Arg	Asp	Leu	Asp	Glu	Gln
Lys	Thr	Gly	Val	Ile	Lys	Val	Asp	Lys	Asn	Phe	Ser	Asp	Asn	Ser	Thr
Tyr	Arg	Ser	Leu	Val	Glu	Gln	Leu	Asp	Gln	Glu	Arg	Glu	Met	Arg	Trp
Lys	Ala	Glu	Gln	Thr	Glu	Lys	Lys	Leu	Met	Asp	Tyr	Ile	Asp	Glu	Leu
His	Lys	Gln	Ala	Asp	Glu	Lys	Lys	Asp	Val	His	Ser	Gln	Ala	Leu	Ile
Thr	Thr	Asp	Arg	Leu	Lys	Asp	Ala	Ile	Phe	Lys	Glu	Arg	His	Cys	Lys
Ala	Gln	Leu	Glu	Ile	Val	His	Arg	Leu	Gln	Asn	Glu	Val	Lys	Lys	Lys
Leu	Thr	Ile	Glu	Leu	Met	Lys	Ala	Arg	Asp	Gln	Gln	Glu	Asp	His	Ile
Arg	His	Leu	Arg	Thr	Leu	Glu	Arg	Ala	Leu	Glu	Lys	Met	Glu	Lys	Gln
Lys	Ala	Gln	Gln	Gln	Ala	Ala	Gln	Ile	Arg	Leu	Ile	Gln	Glu	Val	Glu
Leu	Lys	Ala	Ser	Ala	Ala	Asp	Arg	Glu	Ile	Asn	Leu	Leu	Arg	Thr	Ser
Leu	His	Gln	Glu	Lys	Gln	Gln	Val	Gln	Gln	Leu	His	Glu	Leu	Leu	Ala
Leu	Lys	Glu	Gln	Glu	His	Arg	Gln	Glu	Ile	Glu	Thr	Arg	Gln	Phe	Phe

Thr Asp Ala Glu Phe Gln Asp Ala Leu Thr Lys Arg Leu Cys Lys Glu  
 595 600 605  
 Glu Arg Lys His Glu Gln Glu Val Lys Glu Tyr Gln Glu Lys Ile Asp  
 610 615 620  
 Ile Leu Asn Gln Gln Tyr Leu Asp Leu Glu Asn Glu Phe Arg Ile Ala  
 625 630 635 640  
 Leu Thr Val Glu Ala Arg Arg Phe Lys Asp Val Gln Asp Gly Phe Glu  
 645 650 655  
 Asp Val Ala Thr Glu Leu Ala Lys Ser Lys His Ala Leu Ile Trp Ala  
 660 665 670  
 Gln Arg Lys Glu Asn Glu Ser Ser Leu Ile Lys Asp Leu Thr Cys  
 675 680 685  
 Met Val Lys Glu Gln Lys Thr Lys Leu Ser Glu Val Cys Lys Leu Lys  
 690 695 700  
 Gln Glu Ala Ala Ala Asn Leu Gln Asn Gln Ile Asn Thr Leu Glu Ile  
 705 710 715 720  
 Leu Ile Glu Asp Asp Lys Gln Lys Ser Ile Gln Ile Glu Leu Leu Lys  
 725 730 735  
 His Glu Lys Thr Gln Leu Ile Ser Glu Leu Ala Ala Lys Glu Ser Leu  
 740 745 750  
 Ile Tyr Gly Leu Arg Thr Glu Arg Lys Val Trp Gly Gln Glu Leu Ala  
 755 760 765  
 Cys Gln Ser Ser Thr Leu Ser Gln Ser Arg Gly Lys Leu Glu Ala Gln  
 770 775 780  
 Ile Glu Ser Leu Cys Arg Glu Asn Glu Ser Leu Arg Lys Ser His Glu  
 785 790 795 800  
 Ser Asp Cys Asp Ala Leu Arg Ile Lys Cys Lys Ile Ile Glu Asp Gln  
 805 810 815  
 Asn Glu Thr Ile Arg Lys Leu Lys Asp Ser Leu Gln Glu Lys Asp Gly  
 820 825 830  
 Gln Ile Lys Leu Leu Gln Glu Gln Ile Ala Leu Ile Glu Lys Cys Ser  
 835 840 845  
 Gln Glu Gln Leu Asn Glu Lys Ser Pro Gln Leu Asp Ser Ile Val Glu  
 850 855 860  
 Lys Leu Glu Arg His Asn Glu Arg Lys Glu Lys Leu Lys Gln Gln Leu  
 865 870 875 880  
 Lys Ala Lys Glu Leu Glu Leu Glu Glu Ile Arg Lys Ala Tyr Ser Thr  
 885 890 895  
 Leu Asn Lys Lys Trp His Asp Lys Gly Glu Leu Leu Ser His Leu Glu  
 900 905 910  
 Met Gln Val Lys Glu Val Lys Glu Lys Phe Glu Asp Lys Glu Arg Lys  
 915 920 925  
 Leu Lys Ala Glu Arg Asp Lys Ser Leu Glu Leu Gln Lys Asp Ala Met  
 930 935 940  
 Glu Lys Leu Gln Asn Met Asp Asp Ala Phe Arg Arg Gln Val Asp Glu  
 945 950 955 960  
 Ile Val Glu Ala His Gln Ala Glu Ile Met Gln Leu Ala Asn Glu Lys  
 965 970 975 980  
 Gln Lys Tyr Ile Asp Cys Ala Asn Leu Lys Gly Asp Tyr Ala Arg Gly  
 985 990  
 Asp

<210> 119  
 <211> 52  
 <212> PRT  
 <213> Mus musculus

<400> 119  
 His Ser Gln Ala Leu Ile Thr Thr Asp Arg Leu Lys Asp Ala Ile Phe  
 1 5 10 15  
 Lys Glu Arg His Cys Lys Ala Gln Leu Glu Ile Ile Val His Arg Leu  
 20 25 30  
 Gln Asn Glu Val Lys Lys Leu Thr Ile Glu Leu Met Lys Ala Arg Asp  
 45

Gln 35  
50 Glu Asp

40

45

<210> 120  
<211> 403  
<212> PRT  
<213> Mus musculus

<400> 120  
Leu Gly Thr Met Pro Arg Phe Ser Leu Ser Arg Met Thr Pro Pro Leu  
1 5 10 15  
Pro Ala Arg Val Asp Phe Ser Leu Ala Gly Ala Leu Asn Ala Gly Phe  
20 25 30  
Lys Glu Thr Arg Ala Ser Glu Arg Ala Glu Met Met Glu Leu Asn Asp  
35 40 45  
Arg Phe Ala Ser Tyr Ile Glu Lys Val Arg Phe Leu Glu Gln Gln Asn  
50 55 60  
Lys Ala Leu Ala Ala Glu Leu Asn Gln Leu Arg Ala Lys Glu Pro Thr  
65 70 75 80  
Lys Leu Ala Asp Val Tyr Gln Ala Glu Leu Arg Glu Leu Arg Leu Arg  
85 90 95  
Leu Asp Gln Leu Thr Ala Asn Ser Ala Arg Leu Glu Val Glu Arg Asp  
100 105 110  
Asn Phe Ala Gln Asp Leu Gly Thr Leu Arg Gln Lys Leu Gln Asp Glu  
115 120 125  
Thr Asn Leu Arg Leu Glu Ala Glu Asn Asn Leu Ala Tyr Arg Gln  
130 135 140  
Glu Ala His Glu Ala Thr Leu Ala Arg Val Asp Leu Glu Arg Lys Val  
145 150 155 160  
Glu Ser Leu Glu Glu Glu Ile Gln Phe Leu Arg Lys Ile Tyr Glu Glu  
165 170 175  
Glu Val Arg Asp Leu Arg Glu Gln Leu Ala Gln Gln Gln Val His Val  
180 185 190  
Glu Met Asp Val Ala Lys Pro Asp Leu Thr Ala Ala Leu Arg Glu Ile  
195 200 205  
Arg Thr Gln Tyr Glu Ala Val Ala Thr Ser Asn Met Gln Glu Thr Glu  
210 215 220  
Glu Trp Tyr Arg Ser Lys Phe Ala Asp Leu Thr Asp Ala Ala Ser Arg  
225 230 235 240  
Asn Ala Glu Leu Leu Arg Gln Ala Lys His Glu Ala Asn Asp Tyr Arg  
245 250 255  
Arg Gln Leu Gln Ala Leu Thr Cys Asp Leu Glu Ser Leu Arg Gly Thr  
260 265 270  
Asn Glu Ser Leu Glu Arg Gln Met Arg Glu Gln Glu Glu Arg His Ala  
275 280 285  
Arg Glu Ser Ala Ser Tyr Gln Glu Ala Leu Ala Arg Leu Glu Glu Glu  
290 295 300  
Gly Gln Ser Leu Lys Glu Glu Met Ala Arg His Leu Gln Glu Tyr Gln  
305 310 315 320  
Asp Leu Leu Asn Val Lys Leu Ala Leu Asp Ile Glu Ile Ala Thr Tyr  
325 330 335  
Arg Lys Leu Leu Glu Gly Glu Glu Asn Arg Ile Thr Ile Pro Val Gln  
340 345 350  
Thr Phe Ser Asn Leu Gln Ile Arg Glu Thr Ser Leu Asp Thr Lys Ser  
355 360 365  
Val Ser Glu Gly His Leu Lys Arg Asn Ile Val Val Lys Thr Val Glu  
370 375 380  
Met Arg Asp Gly Glu Val Ile Lys Asp Ser Lys Gln Glu His Lys Asp  
385 390 395 400  
Val Val Met

<210> 121

<211> 45  
 <212> PRT  
 <213> Mus musculus

<400> 121  
 Leu Ala Arg Leu Glu Glu Glu Gly Arg Ser Leu Lys Glu Glu Met Ala  
 1 5 10 15  
 Arg His Leu Gln Glu Tyr Gln Asp Leu Leu Asn Val Lys Leu Ala Leu  
 20 25 30  
 Asp Ile Glu Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly  
 35 40 45

<210> 122  
 <211> 451  
 <212> PRT  
 <213> Mus musculus

<400> 122  
 Met Ala Ser Pro Thr Leu Ser Pro Asp Ser Ser Ser Gln Glu Ala Leu  
 1 5 10 15  
 Ser Ala Pro Thr Cys Ser Pro Thr Ser Asp Ser Glu Asn Leu Ser Pro  
 20 25 30  
 Asp Glu Leu Glu Leu Leu Ala Lys Leu Glu Glu Gln Asn Arg Leu Leu  
 35 40 45  
 Glu Ala Asp Ser Lys Ser Met Arg Ser Met Asn Gly Ser Arg Arg Asn  
 50 55 60  
 Ser Gly Ser Ser Leu Val Ser Ser Ser Ser Ala Ser Ser Asn Leu Ser  
 65 70 75 80  
 His Leu Glu Glu Asp Thr Trp Ile Leu Trp Gly Arg Ile Ala Asn Glu  
 85 90 95  
 Trp Glu Glu Trp Arg Arg Arg Lys Glu Lys Leu Leu Lys Glu Leu Ile  
 100 105 110  
 Arg Lys Gly Ile Pro His His Phe Arg Ala Ile Val Trp Gln Leu Leu  
 115 120 125  
 Cys Ser Ala Thr Asp Met Pro Val Lys Asn Gln Tyr Ser Glu Leu Leu  
 130 135 140  
 Lys Met Ser Ser Pro Cys Glu Lys Leu Ile Arg Arg Asp Ile Ala Arg  
 145 150 155 160  
 Thr Tyr Pro Glu His Glu Phe Phe Lys Gly Gln Asp Ser Leu Gly Gln  
 165 170 175  
 Glu Val Leu Phe Asn Val Met Lys Ala Tyr Ser Leu Val Asp Arg Glu  
 180 185 190  
 Val Gly Tyr Cys Gln Gly Ser Ala Phe Ile Val Gly Leu Leu Met  
 195 200 205  
 Gln Met Pro Glu Glu Glu Ala Phe Cys Val Phe Val Arg Leu Met Gln  
 210 215 220  
 Glu Tyr Arg Leu Arg Glu Leu Phe Lys Pro Ser Met Ala Glu Leu Gly  
 225 230 235 240  
 Leu Cys Ile Tyr Gln Phe Glu Tyr Met Leu Gln Glu Gln Leu Pro Asp  
 245 250 255  
 Leu Asn Thr His Phe Arg Ser Gln Ser Phe His Thr Ser Met Tyr Ala  
 260 265 270  
 Ser Ser Trp Phe Leu Thr Leu Phe Leu Thr Thr Phe Pro Leu Pro Val  
 275 280 285  
 Ala Thr Arg Val Phe Asp Ile Phe Met Tyr Glu Gly Leu Glu Ile Val  
 290 295 300  
 Phe Arg Val Gly Leu Ala Leu Leu Gln Val Asn Gln Thr Glu Leu Met  
 305 310 315 320  
 Gln Leu Asp Met Glu Gly Met Ser Gln Tyr Phe Gln Arg Val Ile Pro  
 325 330 335  
 His Gln Phe Asp Ser Cys Pro Asp Lys Leu Val Leu Lys Ala Tyr Gln  
 340 345 350  
 Val Lys Tyr Asn Pro Lys Lys Met Lys Arg Leu Glu Lys Glu Tyr Ala  
 355 360 365

Ala Met Lys Ser Lys Glu Met Glu Glu Gln Ile Glu Ile Lys Arg Leu  
 370 375 380  
 Arg Thr Glu Asn Arg Leu Leu Lys Gln Arg Ile Glu Thr Leu Glu Lys  
 385 390 400  
 Gly Gln Val Thr Arg Ala Gln Glu Ala Glu Glu Asn Tyr Val Ile Lys  
 405 410 415  
 Arg Glu Leu Ala Val Val Arg Gln Gln Cys Ser Ser Thr Ala Glu Asp  
 420 425 430  
 Leu Gln Lys Ala Gln Ser Thr Ile Arg Gln Leu Gln Glu Gln Gln Val  
 435 440 445  
 Pro Gly Gly  
 450

<210> 123  
 <211> 104  
 <212> PRT  
 <213> Mus musculus

<400> 123  
 Ala Leu Leu Gln Val Asn Gln Thr Glu Leu Met Gln Leu Asp Met Glu  
 1 5 10 15  
 Gly Met Ser Gln Tyr Phe Gln Arg Val Ile Pro His Gln Phe Asp Ser  
 20 25 30  
 Cys Pro Asp Lys Leu Val Leu Lys Ala Tyr Gln Val Lys Tyr Asn Pro  
 35 40 45  
 Lys Lys Met Lys Arg Leu Glu Lys Glu Tyr Ala Ala Met Lys Ser Lys  
 50 55 60  
 Glu Met Glu Glu Gln Ile Glu Ile Lys Arg Leu Arg Thr Glu Asn Arg  
 65 70 75 80  
 Leu Leu Lys Gln Arg Ile Gly Thr Leu Glu Lys Glu Ser Ala Ala Leu  
 85 90 95  
 Ala Asp Arg Leu Ile Gln Gly Ala  
 100

<210> 124  
 <211> 963  
 <212> PRT  
 <213> Mus musculus

<400> 124  
 Met Ala Asp Pro Ala Glu Cys Asn Ile Lys Val Met Cys Arg Phe Arg  
 1 5 10 15  
 Pro Leu Asn Glu Ser Glu Val Asn Arg Gly Asp Lys Tyr Val Ala Lys  
 20 25 30  
 Phe Gln Gly Glu Asp Thr Val Val Ile Ala Ser Lys Pro Tyr Ala Phe  
 35 40 45  
 Asp Arg Val Phe Gln Ser Ser Thr Ser Gln Glu Gln Val Tyr Asn Asp  
 50 55 60  
 Cys Ala Lys Lys Ile Val Lys Asp Val Leu Glu Gly Tyr Asn Gly Thr  
 65 70 75 80  
 Ile Phe Ala Tyr Gly Gln Thr Ser Ser Gly Lys Thr His Thr Met Glu  
 85 90 95  
 Gly Lys Leu His Asp Pro Glu Gly Met Gly Ile Ile Pro Arg Ile Val  
 100 105 110  
 Gln Asp Ile Phe Asn Tyr Ile Tyr Ser Met Asp Glu Asn Leu Glu Phe  
 115 120 125  
 His Ile Lys Val Ser Tyr Phe Glu Ile Tyr Leu Asp Lys Ile Arg Asp  
 130 135 140  
 Leu Leu Asp Val Ser Lys Thr Asn Leu Ser Val His Glu Asp Lys Asn  
 145 150 155 160  
 Arg Val Pro Tyr Val Lys Gly Cys Thr Glu Arg Phe Val Cys Ser Pro  
 165 170 175  
 Asp Glu Val Met Asp Thr Ile Asp Glu Gly Lys Ser Asn Arg His Val  
 180 185 190



Ala	Val	Thr	Asn	Met	Asn	Glu	His	Ser	Ser	Arg	Ser	His	Ser	Ile	Phe
		195					200					205			
Leu	Ile	Asn	Val	Lys	Gln	Glu	Asn	Thr	Gln	Thr	Glu	Gln	Lys	Leu	Ser
	210					215					220				
Gly	Lys	Leu	Tyr	Leu	Val	Asp	Leu	Ala	Gly	Ser	Glu	Lys	Val	Ser	Lys
	225				230					235					240
Thr	Gly	Ala	Glu	Gly	Ala	Val	Leu	Asp	Glu	Ala	Lys	Asn	Ile	Asn	Lys
				245					250					255	
Ser	Leu	Ser	Ala	Leu	Gly	Asn	Val	Ile	Ser	Ala	Leu	Ala	Glu	Gly	Ser
			260					265					270		
Thr	Tyr	Val	Pro	Tyr	Arg	Asp	Ser	Lys	Met	Thr	Arg	Ile	Leu	Gln	Asp
		275					280					285			
Ser	Leu	Gly	Gly	Asn	Cys	Arg	Thr	Thr	Ile	Val	Ile	Cys	Cys	Ser	Pro
	290					295					300				
Ser	Ser	Tyr	Asn	Glu	Ser	Glu	Thr	Lys	Ser	Thr	Leu	Leu	Phe	Gly	Gln
	305				310					315					320
Arg	Ala	Lys	Thr	Ile	Lys	Asn	Thr	Val	Cys	Val	Asn	Val	Glu	Leu	Thr
				325					330					335	
Ala	Glu	Gln	Trp	Lys	Lys	Lys	Tyr	Glu	Lys	Glu	Lys	Glu	Lys	Asn	Lys
			340					345					350		
Thr	Leu	Arg	Asn	Thr	Ile	Gln	Trp	Leu	Glu	Asn	Glu	Leu	Asn	Arg	Trp
		355					360					365			
Arg	Asn	Gly	Glu	Thr	Val	Pro	Ile	Asp	Glu	Gln	Phe	Asp	Lys	Glu	Lys
	370					375					380				
Ala	Asn	Leu	Glu	Ala	Phe	Thr	Ala	Asp	Lys	Asp	Ile	Ala	Ile	Thr	Ser
	385				390					395					400
Asp	Lys	Gly	Ala	Ala	Ala	Val	Gly	Met	Ala	Gly	Ser	Phe	Thr	Asp	Ala
				405					410					415	
Glu	Arg	Arg	Lys	Cys	Glu	Glu	Glu	Leu	Ala	Lys	Leu	Tyr	Lys	Gln	Leu
			420					425					430		
Asp	Asp	Lys	Asp	Glu	Glu	Ile	Asn	Gln	Gln	Ser	Gln	Leu	Val	Glu	Lys
		435					440					445			
Leu	Lys	Thr	Gln	Met	Leu	Asp	Gln	Glu	Glu	Leu	Leu	Ala	Ser	Thr	Arg
	450					455					460				
Arg	Asp	Gln	Asp	Asn	Met	Gln	Ala	Glu	Leu	Asn	Arg	Leu	Gln	Ala	Glu
	465				470					475					480
Asn	Asp	Ala	Ser	Lys	Glu	Glu	Val	Lys	Glu	Val	Leu	Gln	Ala	Leu	Glu
				485					490					495	
Glu	Leu	Ala	Val	Asn	Tyr	Asp	Gln	Lys	Ser	Gln	Glu	Val	Glu	Asp	Lys
			500					505					510		
Thr	Lys	Glu	Tyr	Glu	Leu	Leu	Thr	Asp	Glu	Phe	Asn	Gln	Lys	Ser	Ala
		515					520					525			
Thr	Leu	Ala	Ser	Ile	Asp	Ala	Glu	Leu	Gln	Lys	Leu	Lys	Glu	Met	Thr
	530					535					540				
Asn	His	Gln	Lys	Lys	Arg	Ala	Ala	Glu	Met	Met	Ala	Ser	Leu	Leu	Lys
	545				550					555					560
Asp	Leu	Ala	Glu	Ile	Gly	Ile	Ala	Val	Gly	Asn	Asn	Asp	Val	Lys	Gln
				565					570					575	
Pro	Glu	Gly	Thr	Gly	Met	Ile	Asp	Glu	Glu	Phe	Thr	Val	Ala	Arg	Leu
			580					585					590		
Tyr	Ile	Ser	Lys	Met	Lys	Ser	Glu	Val	Lys	Thr	Met	Val	Lys	Arg	Cys
		595					600					605			
Lys	Gln	Leu	Glu	Ser	Thr	Gln	Thr	Glu	Ser	Asn	Lys	Lys	Met	Glu	Glu
	610					615					620				
Asn	Glu	Lys	Glu	Leu	Ala	Ala	Cys	Gln	Leu	Arg	Ile	Ser	Gln	His	Glu
	625				630					635					640
Ala	Lys	Ile	Lys	Ser	Leu	Thr	Glu	Tyr	Leu	Gln	Asn	Asp	Glu	Gln	Lys
				645					650					655	
Lys	Arg	Gln	Leu	Glu	Glu	Ser	Leu	Asp	Ser	Leu	Gly	Glu	Glu	Leu	Val
			660					665					670		
Gln	Leu	Arg	Ala	Gln	Glu	Lys	Val	His	Glu	Met	Glu	Lys	Glu	His	Leu
		675					680					685			
Asn	Lys	Val	Gln	Thr	Ala	Asn	Glu	Val	Lys	Gln	Ala	Val	Glu	Gln	Gln
	690					695					700				

Ile Gln Ser His Arg Glu Thr His Gln Lys Gln Ile Ser Ser Leu Arg  
705 710 715 720  
Asp Glu Val Glu Ala Lys Glu Lys Leu Ile Thr Asp Leu Gln Asp Gln  
725 730 735  
Asn Gln Lys Met Val Leu Glu Thr Glu Arg Leu Arg Val Glu His Glu  
740 745 750  
Arg Leu Lys Ala Thr Asp Gln Glu Lys Ser Arg Lys Leu His Glu Leu  
755 760 765  
Thr Val Met Gln Asp Arg Arg Glu Gln Ala Arg Gln Asp Leu Lys Gly  
770 775 780  
Leu Glu Glu Thr Val Ala Lys Glu Leu Gln Thr Leu His Asn Leu Arg  
785 790 795 800  
Lys Leu Phe Val Gln Asp Leu Ala Thr Arg Val Lys Lys Ser Ala Glu  
805 810 815  
Val Asp Ser Asp Asp Thr Gly Gly Ser Ala Ala Gln Lys Gln Lys Ile  
820 825 830  
Ser Phe Leu Glu Asn Asn Leu Glu Gln Leu Thr Lys Val His Lys Gln  
835 840 845  
Leu Val Arg Asp Asn Ala Asp Leu Arg Cys Glu Leu Pro Lys Leu Glu  
850 855 860  
Phe Arg Leu Arg Ala Thr Ala Glu Arg Val Lys Ala Leu Glu Ser Ala  
865 870 875 880  
Leu Lys Glu Ala Lys Glu Asn Ala Ser Arg Asp Arg Lys Arg Tyr Gln  
885 890 895  
Gln Glu Val Asp Arg Ile Lys Glu Ala Val Arg Ser Lys Asn Met Ala  
900 905 910  
Arg Arg Gly His Ser Ala Gln Ile Ala Lys Pro Ile Arg Pro Gly Gln  
915 920 925  
His Pro Ala Ala Ser Pro Thr His Pro Gly Thr Val Arg Gly Gly Gly  
930 935 940  
Ser Phe Val Gln Asn Asn Gln Pro Val Gly Leu Arg Gly Gly Gly Gly  
945 950 955 960  
Lys Gln Ser

<210> 125  
<211> 45  
<212> PRT  
<213> Mus musculus

<400> 125  
Val Cys Val Asn Val Glu Leu Thr Ala Glu Gln Trp Lys Lys Lys Tyr  
1 5 10 15  
Glu Lys Glu Lys Glu Lys Asn Lys Thr Leu Arg Asn Thr Ile Gln Trp  
20 25 30  
Leu Glu Asn Glu Leu Asn Arg Trp Arg Asn Arg Glu Thr  
35 40 45

<210> 126  
<211> 306  
<212> DNA  
<213> Mus musculus

<400> 126  
atgttgagtc gactgcagga gctccgcaag gaggaggaaa ccctgctgctg tctaaaggcg 60  
gctctacacg accaactgaa ccgcctcaag gttgaagaat tagcccttica atccatgata 120  
aattctcgag gaaggaccga gacactgtct tctcagcctg cacctgaaca gttatgtgat 180  
atgtccctac atgtagacaa cgaagtgaca ataaatcaga ctacactgaa gctgagcaca 240  
aggagcccta tggaagaaga ggaggaggaa gaggaggagg aagaggagga ggaagaatct 300  
gattcg 306

<210> 127  
<211> 260  
<212> DNA

<213> Mus musculus

<400> 127  
gtagaaggca gcgccctaag gaagtggag gggatgttga gtcgactgca ggagctccgc 60  
aaggaggagg aaaccctgct gcgtctaaag gcggctctac acgaccaact gaaccgcctc 120  
aagggtgaag aattagccct tcaatccgtg ataaattctc gaggaaggac cgagacactg 180  
tcttctcagc ctgcacctga acagttatgt gatatgtccc tacatgtaga ccacgaagtg 240  
acaataaatc agacgactga 260

<210> 128

<211> 252

<212> DNA

<213> Mus musculus

<400> 128  
agcgccctaa ggaagtggaa ggggatgttg agtcgactgc aggagctccg caaggaggag 60  
gaaacccagc tgcgtctaaa ggcggctcta cacgaccaac tgaaccgcct caagggttgaa 120  
gaattagccc ttcaatccat gataaattct cgaggaagga ccgagacact gtcttctcag 180  
cctgcacctg aacagttatg tgatatgtcc ctacatgtag accacgaagt gacaataaat 240  
cagactacac tg 252

<210> 129

<211> 250

<212> DNA

<213> Mus musculus

<400> 129  
agcgccctaa ggaagtggaa ggggatgttg agtcgactgc aggagctccg caaggaggag 60  
gaaacccagc tgcgtctaaa ggcggctcta cacgaccaac tgaaccgcct caagggttgaa 120  
gaattagccc ttcaatccat gataaattct cgaggaagga ccgagacact gtcttctcag 180  
cctgcacctg aacagttatg tgatatgtcc ctacatgtag acaacgaagt gacaataaat 240  
cagaaattgg 250

<210> 130

<211> 249

<212> DNA

<213> Mus musculus

<400> 130  
agcgccctaa ggaagtggaa ggggatgttg agtcgactgc aggagctccg caaggaggag 60  
gaaacccagc tgcgtctaaa ggcggctcta cacgaccaac tgaaccgcct caagggttgaa 120  
gaattagccc ttcaatccat gataaattct cgaggaagga ccgagacact gtcttctcag 180  
cctgcacctg aacagttatg tgatatgtcc ctacatgtag acaacgaagt aacaataaat 240  
cagaaattgg 249

<210> 131

<211> 249

<212> DNA

<213> Mus musculus

<400> 131  
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gaattagccc ttcaatccat gataaattct cgaggaagga ccgagacact gtcttctcag 180  
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cagagcaaa 249

<210> 132

<211> 195

<212> DNA

<213> Mus musculus

<400> 132  
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cctgcacctg	aatca					195

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ttagcccttc	aatccatgat	aaattctcga	ggaaggaccg	agacactgtc	ttctcagcct	180
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 <212> DNA  
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taccccttca	atccatgata	aattctcgag	gaaggaccga	gacactgtct	tctcagcctg	180
cacctgaaca	gttatgtgat	atgtccctac	atgtagacaa	cgaagtgaca	ataaatcaga	240
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 <213> Mus musculus

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tagcccttca	atccatgata	aattctcgag	gaaggaccga	gacactgtct	tctcagcctg	180
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ctacacgg						248

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 <212> DNA  
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<400> 136						
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tagcccttca	atccatgata	aattcccgag	gaaggaccga	gacactgtct	tttcagcctg	180
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ctacacgg						248

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 <212> DNA  
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<400> 137						
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cacga						185

<210> 138  
 <211> 161

<212> DNA  
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<210> 141  
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 gcccttcaat ccatgataaa ttctcgagga aggaccgaga cactgtcttc tcagcctgca 180  
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<210> 143  
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cctgaacagt	tatgtgatat	gtccctacat	gtagacaacg	aagtgacaat	aaatcagact	240
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 <213> Mus musculus

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gcccttcaat	ccatgataaa	ttctcgagga	aggaccgaga	cactgtcttc	tcagcctgca	180
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acactgaa						248

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 <212> DNA  
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gcccttcaat	ccatgataaa	ttctcgagga	aggaccgaga	caccgtcttc	tcagcctgca	180
cctgaacagt	tatgtgatat	gtccctacat	gtagacaacg	aagtgacaat	aaatcagacg	240
acactgaa						248

<210> 146  
 <211> 245  
 <212> DNA  
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gcccttcaat	ccatgataaa	ttctcgagga	aggaccgaga	cactgtcttc	tcagcctgca	180
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acaag						245

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gcccttcaat	ccatgataaa	ttctcgagga	aggaccgaga	cactgtcttc	tcagcctgca	180
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acacga						246

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gcccttcaat	ccatgataaa	ttctcgagga	aggaccgaga	cactgtcttc	tcagcctgca	180
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acaccg						246

<210> 149

<211> 246  
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 gcccttcaat ccatgataaa ttctcgagga aggaccgaga cactgtcttc tcagcctgca 180  
 cctgaacagt tatgtgatat gtccctacat gtagacaacg aagtgacaat aaatcagacg 240  
 aactg 246

<210> 150  
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 <212> DNA  
 <213> Mus musculus

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 gcccttcaat ccatgataaa ttctcgagga aggaccgaga cactgtcttc tcagcctgca 180  
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<210> 151  
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 <212> DNA  
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 gcccttcaat ccatgataaa ttctcgagga aggaccgaga cactgtcttc tcagcctgta 180  
 cctgaacagt tatgtgatat gtccctacat gtagacaacg aagtgacaat aaatcagact 240  
 aactg 246

<210> 152  
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 <212> DNA  
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 gcccttcaat ccatgataaa ttctcgagga aggaccgaga cactgtcttc tcagcctgca 180  
 cctgaacagt tatgtgatat gtccctacat gtagacagcg aagtgacaat aaatcagact 240  
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 cctgaacagt tatgtgatat gtccctacat gtagacaacg aagtgacaat aaatcagact 240  
 caaaa 246

<210> 154  
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 <212> DNA  
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 gcccttcaat ccatgataaa ttctcgagga aggaccgaga cactgtcttc tcagcctgca 180  
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 <212> DNA  
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<210> 157  
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 <212> DNA  
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<400> 157  
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 cccttcaatc catgataaat tctcgaggaa ggaccgagac actgtcttct cagcctgcac 180  
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<210> 158  
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 <212> DNA  
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 aggaccgatg cttggagggtg agagagg 147

<210> 159  
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 <212> DNA  
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<400> 159  
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 cccttcaatc catgataaat tctcgaggaa gg 152

<210> 160  
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cttcaatcca	tgataaattc	tcgaggaagg	accgagacac	tgtcttctca	gcctgcacct		180
gaacagttat	gtgatatgtc	cctacatgta	gacaacgaag	tgacaataaa	tcagactaca		240
ctg							243

<210> 161  
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ctg							243

<210> 162  
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cttcaatcca	tgataaattc	tcgaggaagg	accgagacac	tgtcttctca	gcctgcacct		180
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ccg							243

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cttcaatcca	tgataaattc	tcgaggaagg	accgagacac	tgtcttctca	gcctgcacct		180
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ccg							243

<210> 164  
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 <212> DNA  
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ccg							243

<210> 165  
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ccg						243

<210> 166  
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 <212> DNA  
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ccg						243

<210> 167  
 <211> 245  
 <212> DNA  
 <213> Mus musculus

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accaa						245

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ctg						243

<210> 169  
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caagg						245

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cca						243

<210> 171  
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 <212> DNA  
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 cca 243

<210> 172  
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 cca 243

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<210> 174  
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 <212> DNA  
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<210> 175  
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 <212> DNA  
 <213> Mus musculus

<400> 175  
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 cttaaaggcgg ctctacacga ccaactgaac cgccctcaagg ttgaagaatt agcccttcaa 120  
 tccatgataa attctcgagg aaggaccgag acactgtctt ctgcagcctgc acctgaacag 180  
 ttatgtgata tgtccctaca tgtagacaac gaagtgacaa taaatcagac tacactg 237

<210> 176  
 <211> 237  
 <212> DNA  
 <213> Mus musculus

<400> 176

tggaagggga	tgttgagtcg	actgcaggag	ctccgcaagg	aagaggaagc	cctgctgcgt	60
ctaaaggcgg	ctctacacga	ccaactgaac	cgcctcaagg	ttgaagaatt	agcccttcaa	120
tccatgataa	attctcggag	aaggaccgag	acactgtctt	ctcagccagc	acctgaacag	180
ttatgtgata	tgtccctaca	tgtagacaac	gaagtgacaa	taaatcagac	tacactg	237

<210> 177  
 <211> 143  
 <212> DNA  
 <213> Mus musculus

<400> 177						
ggaaggggat	gttgagtcga	ctgcaggagc	tccgcaagga	ggaggaaacc	ctgctgcgtc	60
taaaggcggc	tctacacgac	caactgaacc	gcctcaagg	ttaaagaatta	gcccttcaat	120
ccatgataaa	ttctcgggga	agg				143

<210> 178  
 <211> 270  
 <212> DNA  
 <213> Mus musculus

<400> 178						
gggatgttga	gtcgactgca	ggagctccgc	aaggaggagg	aaaccctgct	gcgtctaaag	60
gcggctctac	acgaccaact	gaaccgcctc	aagggttgaag	aattagccct	tcaatccatg	120
ataaattctc	gaggaaggac	cgagacactg	tcttctcagc	ctgcacctga	acagttatgt	180
gatatgtccc	tacatgtaga	caacgaagtg	acaataaatc	agactacact	gaagctgagc	240
acaaggagcc	ctatggaaga	agaggagggg				270

<210> 179  
 <211> 231  
 <212> DNA  
 <213> Mus musculus

<400> 179						
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gcggctctac	acgaccaact	gaaccgcctc	aagggttgaag	aattagccct	tcaatccatg	120
ataaattctc	gaggaaggac	cgaggcactg	tcttctcagc	ctgcacctga	acagttatgt	180
gatacgtccc	tacatgtaga	caacgaagtg	acaataaatc	agactacact	a	231

<210> 180  
 <211> 231  
 <212> DNA  
 <213> Mus musculus

<400> 180						
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gcggctctac	acgaccaact	gaaccgcctc	aagggttgaag	aattagccct	tcaatccatg	120
ataaattctc	gaggaaggac	cgagacactg	tcttctcagc	ctgcacctga	acagttatgt	180
gatatgtccc	tacatgtaga	caacgaagtg	acaataaatc	agacacactc	g	231

<210> 181  
 <211> 231  
 <212> DNA  
 <213> Mus musculus

<400> 181						
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gcggctctac	acgaccaact	gaaccgcctc	aagggttgaag	aattagccct	tcaatccatg	120
ataaattctc	gaggaaggac	cgagacactg	tcttctcagc	ctgcacctga	acagttatgt	180
gatatgtccc	tacatgtaga	caacgaagtg	gcaataaatc	agactacgcc	g	231

<210> 182  
 <211> 231  
 <212> DNA  
 <213> Mus musculus

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ataaattctc	gaggaaggac	cgagacactg	tcttctcagc	ctgcacctga	acagttatgt		180	
gatatgtccc	tacatgtaga	caacgaagtg	acaataaaatc	agacgacacc	g		231	

<210> 183  
 <211> 229  
 <212> DNA  
 <213> Mus musculus

<400>	183							
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gcggctctac	acgaccaact	gaaccgcctc	aagggttgaag	aattagccct	tcaatccatg		120	
ataaattctc	gagaaaggac	cgagacactg	tcttctcggc	ctgctcctga	acagttatgt		180	
gatatgtccc	tacatgtaga	caacgaagtg	acaataaaatc	agacaactc			229	

<210> 184  
 <211> 228  
 <212> DNA  
 <213> Mus musculus

<400>	184							
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ataaattctc	gaggaaggac	cgagacactg	tcttctcagc	ctgcacctga	acagttatgt		180	
gatatgtccc	tacatgtaga	caacgaagtg	acaatagatc	agggagct			228	

<210> 185  
 <211> 224  
 <212> DNA  
 <213> Mus musculus

<400>	185							
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ataaattctc	gaggaaggac	cgagacactg	tcttctcagc	ctgcacctga	acagttatgt		180	
gatatgtccc	tacatgtaga	caacgaagtg	acaataaaatc	agaa			224	

<210> 186  
 <211> 209  
 <212> DNA  
 <213> Mus musculus

<400>	186							
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gcggctctac	acgaccaact	gaaccgcctc	aagggttgaag	aattagccct	tcaatccatg		120	
ataaattctc	gaggaaggac	cgagacactg	tcttctcagc	ctgcacctga	acagttatgt		180	
gatatgtccc	tacatgtaga	ccacgaacg					209	

<210> 187  
 <211> 208  
 <212> DNA  
 <213> Mus musculus

<400>	187							
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ataaattctc	gaggaaggac	cgagacactg	tcttctcagc	ctgcacctga	acagttatgt		180	
gatatgtccc	tacatgtaga	catcgaaa					208	

<210> 188  
 <211> 203

<212> DNA  
 <213> Mus musculus

<400> 188  
 gggatgttga gtcgactgca ggagctccgc aaggaggagg aaaccctgct gcgtctaaag 60  
 gcggctctac acgaccaact gaaccgcctc aagggtgaag aattagccct tcaatccatg 120  
 ataaattctc gaggaaggac cgagacactg tcttctcagc ctgcacctga acagttatgt 180  
 gatacgtccc tacatgtaac aac 203

<210> 189  
 <211> 138  
 <212> DNA  
 <213> Mus musculus

<400> 189  
 gggatgttga gtcgactgca ggagctccgc aaggaggagg aaaccctgct gcgtctaaag 60  
 gcggctctac acgaccaact gaaccgcctc aagggtgaag aattagccct tcaatccatg 120  
 ataaattcta ggggaagg 138

<210> 190  
 <211> 138  
 <212> DNA  
 <213> Mus musculus

<400> 190  
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 ataaattctc gaggaagg 138

<210> 191  
 <211> 139  
 <212> DNA  
 <213> Mus musculus

<400> 191  
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<210> 192  
 <211> 228  
 <212> DNA  
 <213> Mus musculus

<400> 192  
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 ttctcgagga aggaccgaga cactgtcttc tcagcctgca cctgaacagt tatgtgatat 180  
 gtccctacat gtagacaacg aagtgacaat aaatcagacg aactgaa 228

<210> 193  
 <211> 208  
 <212> DNA  
 <213> Mus musculus

<400> 193  
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 tctacacgac caactgaacc gcctcaagggt tgaagaatta gcccttcaat ccatgataaa 120  
 ttctcgagga aggaccgaga cactgtcttc tcagcctgca cctgaacagt tatgtgatat 180  
 gtccctacat gtagacaacg aagcgaca 208

<210> 194  
 <211> 208  
 <212> DNA

<213> Mus musculus

<400> 194

gttgagtcga	ctgcaggagc	tccgcaagga	ggaggaaacc	ctgctgcgtc	taaaggcggc	60
tctacacgac	caactgaatc	gcctcaaggc	tgaagaatta	gcccttcaat	ccatgataaa	120
ttctcgagga	aggaccgaga	cactgtcttc	tcagcctgca	cctgaacagt	tatgtgatat	180
gtccctacat	gtagacaacg	aagcgaca				208

<210> 195

<211> 200

<212> DNA

<213> Mus musculus

<400> 195

cgactgcagg	agctccgcaa	ggaggaggaa	accctgctgc	gtctaaaggc	ggctctacac	60
gaccaactga	accgcctcaa	ggttgaagaa	ttagcccttc	aatccatgat	aaattctcga	120
ggaaggaccg	agacactgtc	ttctcagcct	gcacctgaac	agttatgtga	tatgtcccta	180
catgtagaca	acgaagtgc					200

<210> 196

<211> 183

<212> DNA

<213> Mus musculus

<400> 196

cgactgcagg	agctccgcaa	ggaggagaaa	accctgctgc	gtctaaaggc	ggctctacac	60
gaccaactga	accgcctcaa	ggttgaagaa	ttagcccttc	aatccatgat	aaattctcga	120
ggaaggaccg	agacactgtc	ttctcagcct	gcacctgaac	aatgtcccta	catgttgaca	180
acg						183

<210> 197

<211> 183

<212> DNA

<213> Mus musculus

<400> 197

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gaccaactga	accgcctcaa	ggttgaagaa	ttagcccttc	aatccatgat	aaattcccga	120
ggaaggaccg	agacactgtc	ttctcagcct	gcacctggac	aatgtcccta	catgttgaca	180
acg						183

<210> 198

<211> 183

<212> DNA

<213> Mus musculus

<400> 198

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gaccaactga	accgcctcaa	ggttgaagaa	ttagcccttc	aatccatgat	aaattctcga	120
ggaaggaccg	agacactgtc	ttctcagcct	gcacctgaac	aatgtcccta	catgttgaca	180
acg						183

<210> 199

<211> 120

<212> DNA

<213> Mus musculus

<400> 199

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<210> 200

<211> 2868

<212> DNA

<213> Mus musculus

<400> 200

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gcggagatcc	tccgcgggga	caaattcatc	cccaaattca	aaggcgagga	gacggtggtg	120
atcgggcaag	ggaagccgta	tgtctttgac	cgagtgtctg	cgcccaacac	aaccagagag	180
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catgatcttc	agcttatggg	tatcattcca	aggattgcac	atgatatttt	tgatcacatc	360
tattccatgg	acgagaacct	ggagtttcat	atcaaggttt	cctattttga	gatctacttg	420
gacaaaataa	gggacttgct	tgatgtgtcc	aagaccaact	tggcagttca	tgaagacaaa	480
aacagagtcc	cctatgtaaa	ggggtgcacc	gagaggtttg	tgtcaagccc	ggaggaggtc	540
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cacagctcta	ggagtcacag	tatcttcctg	attaacatta	agcaagagaa	tgtggagact	660
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ggacagagag	caaagaccat	caagaatata	gtctctgtga	acttggaact	aacagcagaa	1020
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aaaacgacga	cactgacaac	caccagcgca	gagctgagtc	agctgcaaga	gcttagtaac	1620
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agtgagcgcg	agctggcagc	gtgccagttg	cttatctcac	agcacgaagc	caagatcaag	1920
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gactccctca	gcgaggaact	ggccaagctc	cggggcccag	aaaaaatgca	cgaagtcagt	2040
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cgcaaactct	tcgtccagga	tttgacaacc	cgggtgaaaa	agagtgtgga	gctggacagc	2460
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atcgccaagc	ccatccgccc	aggccattac	ccagcatcat	ctccgacagc	tgtccatgcc	2820
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<210> 201

<211> 183

<212> DNA

<213> Mus musculus

<400> 201

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gagaagaggc	ttcgtgctac	cgcagaacgc	gtcaaggcct	tggagagtgc	gctgaaagag	180
gcc						183

<210> 202



<211> 183  
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<400> 202  
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 gagaagaggc ttcgtgctac cgcagaacgc gtcaaggcct tggagagtgc gctgaaagag 180  
 gcc 183

<210> 203  
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 <212> DNA  
 <213> Mus musculus

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 gagaagaggc ttcgtgctac cgcaaaacgc gtcaaggcct tggagagtgc gctgaaagat 180  
 gcc 183

<210> 204  
 <211> 192  
 <212> DNA  
 <213> Mus musculus

<400> 204  
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 gccaaaggaga ga 192

<210> 205  
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 <212> DNA  
 <213> Mus musculus

<400> 205  
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 aaggtgcaca agcagctggt ccgggacaat gcagatttgc gctgtgaact cccaagctg 120  
 gagaagaggc ttcgtgctac cgcagaacgc gtcatggcct tggagagtgc gctgaaagag 180  
 gccaaaggaga ga 192

<210> 206  
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 gagaagaggc ttcgtgctac cgcagaacgc gtcaaggcct tggagagtgc gctgaaagag 180  
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<210> 207  
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 <212> DNA  
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<400> 207  
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 aaggtgcaca agctgctggt ccgggacaat gcagatttgc gctgtgaact cccaagctg 120  
 gagaagaggc ttcgtgctac cgcagaacgc gtcaaggcct tggagagtgc gctgaaagag 180  
 gccaaaggaga ga 192

<210> 208  
 <211> 162  
 <212> DNA  
 <213> Mus musculus

<400> 208  
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 agtgcgctga aagaggccaa ggagaatgcc atgagagaca ga 162

<210> 209  
 <211> 162  
 <212> DNA  
 <213> Mus musculus

<400> 209  
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 agtgcgctga aagaggccaa ggagaatgcc atgagagaca ga 162

<210> 210  
 <211> 162  
 <212> DNA  
 <213> Mus musculus

<400> 210  
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 agtgcgctga aagaggccaa ggagaatgcc atgagagaca ga 162

<210> 211  
 <211> 162  
 <212> DNA  
 <213> Mus musculus

<400> 211  
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 gaactcccca agctggagaa gaggcttcgt gctaccgcag aacgcgtcaa ggccttggag 120  
 agtgcgctga aagaggccaa ggagaatgcc atgagagaca ga 162

<210> 212  
 <211> 184  
 <212> DNA  
 <213> Mus musculus

<400> 212  
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 caatgcagat ttgcgctgtg aactccccag gctggagaag atgcttcgtg ctaccgcaga 120  
 acgcgtcaag gccttggaga gtgcgctgaa agaggccaag gagaatgcca tgagtgcgcg 180  
 gaaa 184

<210> 213  
 <211> 162  
 <212> DNA  
 <213> Mus musculus

<400> 213  
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 gaactcccca agctggagaa gaggcttcgt gctaccgcaa aacgcgtcaa ggccttggag 120  
 agtgcgctga aagaggccaa ggagaatgcc atgagagaca ga 162

<210> 214  
 <211> 147

<212> DNA  
 <213> Mus musculus

<400> 214  
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 gagatggagc tgaacaggtg gagggag 147

<210> 215  
 <211> 153  
 <212> DNA  
 <213> Mus musculus

<400> 215  
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<210> 216  
 <211> 146  
 <212> DNA  
 <213> Mus musculus

<400> 216  
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<210> 217  
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 <212> DNA  
 <213> Mus musculus

<400> 217  
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 agagcaaaga ccatcaagaa tacagtctct gtgaacttgg aactaacagc agaagagtgg 120  
 aaaaagaaat atgaaaaaga gaaagagaag aacaaggcct tgaagagtgt cctccagcat 180  
 ctggagatgg agctgaacag gtggaggaat 210

<210> 218  
 <211> 3081  
 <212> DNA  
 <213> Mus musculus

<400> 218  
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<210> 219  
 <211> 158  
 <212> DNA  
 <213> Mus musculus

<400> 219						
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<210> 220  
 <211> 177  
 <212> DNA  
 <213> Mus musculus

<400> 220						
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cgggctacgg	ctgagagagt	taaggccctg	gaggggtgcac	tgaaggaggg	caaggag	177

<210> 221  
 <211> 186  
 <212> DNA  
 <213> Mus musculus

<400> 221						
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gagggg						186

<210> 222  
 <211> 186  
 <212> DNA  
 <213> Mus musculus

<400> 222  
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 gtacgtgaca atgcagattt acgtttgtgag cttcctaaat tggaaaaaacg acttcgggct 120  
 acggctgaga gagttaaggc cctggagggt gcaactgaagg aggccaaagga gggcgctatg 180  
 aaggac 186

<210> 223  
 <211> 180  
 <212> DNA  
 <213> Mus musculus

<400> 223  
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 caatgcagat ctgctgtgtg agcttcctaa attggaaaaa cgacttcggg ctacggctga 120  
 gagagttaag gccctggagg gtgcactgaa ggaggccaag gagggcgcta tgaaggacga 180

<210> 224  
 <211> 37  
 <212> DNA  
 <213> Mus musculus

<400> 224  
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<210> 225  
 <211> 843  
 <212> DNA  
 <213> Mus musculus

<400> 225  
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 gcagaaagga gatttctatga gcagatgaac gggcctgtga cctccggctc ccgccaggag 120  
 aatggtgcc a gctggtatcct ccgagacatt gcaagagcca gagagaacat ccagaaatcc 180  
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 ttgcagcagg ccattttccaa gttggaggcc cggctgagct ctctagagaa gaggttcacct 360  
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 ggagtgacg agggaggaaga agataaggag gctgcccagac tacgggagga gaggctacgc 540  
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 cggaagctgc agatccagtg tgtggtggag gatgacaaag tgggcaccga cttgctcgag 780  
 gaggagatca ccaaatttga ggagcatgtg cagagtgtcg acatcgcagc tttcgacaag 840  
 atc 843

<210> 226  
 <211> 219  
 <212> DNA  
 <213> Mus musculus

<400> 226  
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 tcacctactc cccgagccac ggccccacag acccaacatg tctctcctat gcgtcaagtg 180  
 gagcccccaa ccaagaaagg agccacacca gcagaggtg 219

<210> 227

<211> 200  
 <212> DNA  
 <213> Mus musculus

<400> 227  
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 gccacgaccc cacagaccca acatgtctct cctatgcgtc aagtggagcc cccaaccaag 180  
 aaaggagcca caccagcaga 200

<210> 228  
 <211> 268  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> Unsure  
 <222> (172)

<400> 228  
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 agagaagagt tcacctactc cccgagccac ggccccacag acccaacatg tntttccttt 180  
 gcgtcaagtg gagcccccaa ccaagaaagg agccacacca gcagaggacg atgaggacaa 240  
 ggacattgac ctgttcggca gaaacgag 268

<210> 229  
 <211> 356  
 <212> DNA  
 <213> Mus musculus

<400> 229  
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 ctggaagtgg agaaccagaa ccttcgaggc gtgggtgcaag atttgcagca ggccatttcc 240  
 aagtggagg cccggctgag ctctctagag aagagttcac ctactccccg agccacggcc 300  
 ccacagaccc aacatgtctc tcccctgcgt caagtggagc cccaaccaaa gagagg 356

<210> 230  
 <211> 2547  
 <212> DNA  
 <213> Mus musculus

<400> 230  
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<210> 231

<211> 150

<212> DNA

<213> Mus musculus

<400> 231

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<210> 232

<211> 167

<212> DNA

<213> Mus musculus

<400> 232

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aagtgggaaa	tggtctcgta	tttgcgagaa	taccaggatc	tccttaacgt	caagatggcc	120
ctggacatcg	agatcgccgc	gtacaggaaa	ctcctagagg	gggaatt		167

<210> 233

<211> 159

<212> DNA

<213> Mus musculus

<400> 233

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gaaatggctc	gtcatittgcg	agaataccag	gatctcctta	acgtcaagat	ggccctggac	120
atcgagatcg	ccgcgtacag	gaaactccta	gagggagggt			159

<210> 234

<211> 116

<212> DNA

<213> Mus musculus

<400> 234

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 <212> DNA  
 <213> Mus musculus

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 cagtgtgtga aggtcttgct tcagcacggg gctaataaag atgctgtgga tgcagaaaaat 360  
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 <213> Mus musculus

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 <212> DNA  
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 <212> DNA  
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 <212> DNA  
 <213> Mus musculus

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<210> 243  
 <211> 258  
 <212> DNA  
 <213> Mus musculus

<400> 243						
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gaacaccaac	aggaagaa					258

<210> 244  
 <211> 1455  
 <212> DNA  
 <213> Mus musculus

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<210> 245  
 <211> 219  
 <212> DNA  
 <213> Mus musculus

<400> 245						
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<210> 246  
 <211> 4011  
 <212> DNA  
 <213> Mus musculus

<400> 246						
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<210> 248  
 <211> 2979  
 <212> DNA  
 <213> Mus musculus

<400> 248						
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